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# CENTRAL FLYWAY

## HARVEST AND POPULATION SURVEY DATA BOOK

2012



compiled by:

**Kammie L. Kruse**

**CENTRAL FLYWAY WILDLIFE BIOLOGIST  
U.S. FISH AND WILDLIFE SERVICE  
DIVISION OF MIGRATORY BIRD MANAGEMENT  
755 Parfet St., Suite 496B  
Lakewood, CO 80215  
(303) 275-2385**

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# CENTRAL FLYWAY

## 1948-2011

64 YEARS OF MIGRATORY BIRD CONSERVATION

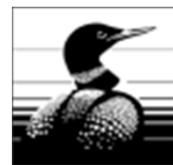


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**Important Note to Users:**

From 1961-2001, estimates of waterfowl harvest, waterfowl hunter participation, and waterfowl hunter success in the United States were derived from a combination of several sources: 1) sales of migratory bird conservation stamps (Duck Stamps), 2) a Mail Questionnaire Survey of individuals who purchased ducks stamps for hunting purposes, and 3) the Waterfowl Parts Collection Survey (PCS). This survey, which was based on duck stamp sales was discontinued after the 2001 hunting season.

Beginning in 1999, new survey methods were implemented that obtained estimates of waterfowl harvest, hunter participation, and hunter success from: 1) States' lists of migratory bird hunters identified through the Harvest Information Program (HIP), 2) a questionnaire (HIP Survey) sent to a sample of those hunters, and 3) the Waterfowl PCS. The basic difference is that during 1961 - 2001 waterfowl hunter activity and harvest estimates were derived from a Mail Questionnaire Survey (MQS) of duck stamp purchasers, whereas from 1999 to the present those estimates were derived from HIP surveys of people identified as migratory bird hunters by the States. Both survey systems relied on the Waterfowl PCS for species composition data.

During 1989-2002, migratory game bird harvest and population survey information in the Central Flyway was presented in annually updated Data Books. Because of the recently implemented changes in survey design, historical harvest estimates will not be directly comparable to current estimates. Therefore, previous harvest survey information derived from the MQS are considered as final and compiled in the Central Flyway Waterfowl Hunting and Harvest Survey Information, 1961-2001.

For 1999 and subsequent years, waterfowl hunting and harvest estimates that are derived from HIP, along with the usual population survey information, will be compiled in annual updates of the Central Flyway Harvest and Population Survey Data Book. In the future, the annual Data Book will be expanded to also present annual hunter activity and harvest estimates for other migratory game bird species that are now derived from HIP surveys.

# 2012

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**UNITED STATES  
DUCK STAMP SALES**

**CANADIAN MIGRATORY  
BIRD PERMIT SALES**

**MID-CONTINENT  
SANDHILL CRANE  
HUNTING PERMITS**

**TUNDRA SWAN  
HUNTING PERMITS**

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**DUCK STAMP SALES IN THE UNITED STATES: 1999-2008<sup>1</sup>**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
											FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY
1999	39,322	26,511	22,478	34,323	5,130	37,297	21,096	33,568	127,028	11,309	335,584	298,611	746,682	258,176	1,639,053
2000	38,796	27,902	20,767	37,040	5,447	35,795	22,208	32,383	136,990	11,130	347,691	305,793	745,776	255,568	1,654,828
2001	34,766	26,573	21,994	33,825	5,449	35,439	22,418	33,463	148,874	10,626	351,433	308,747	734,300	246,940	1,641,420
2002	31,603	26,594	21,148	31,886	5,066	31,549	21,811	30,881	137,810	8,114	325,314	310,110	706,776	234,345	1,576,545
2003	33,239	27,217	21,711	31,992	5,049	32,917	21,705	31,439	130,039	8,786	322,383	313,038	695,242	231,482	1,562,145
2004	37,229	24,419	21,016	29,603	4,582	28,593	20,721	28,235	119,136	9,002	301,520	308,884	667,124	225,988	1,503,516
2005	39,174	22,925	20,051	25,924	4,322	27,278	18,408	26,005	118,749	8,493	291,278	308,511	625,376	223,125	1,448,290
2006	31,893	21,465	16,379	22,702	4,349	22,998	19,147	22,098	125,123	5,805	275,579	265,761	603,805	205,751	1,350,896
2007	32,807	22,361	16,119	21,489	4,194	20,844	20,891	22,020	127,266	6,412	278,284	259,848	602,641	207,716	1,348,480
2008 <sup>2</sup>	31,502	22,882	17,435	20,829	4,363	19,571	21,108	21,508	137,715	5,851	285,329	265,841	599,958	201,814	1,352,942
<b>AVERAGES:</b>															
1999-2008	35,033	24,885	19,910	28,961	4,795	29,228	20,951	28,160	130,873	8,553	311,440	294,514	672,768	229,091	1,507,813

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.

<sup>2</sup> Preliminary

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## MIGRATORY GAME BIRD HUNTING PERMITS BY PROVINCE/TERRITORY OF PURCHASE IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NU	TOTAL	
1966	13,269	3,271	7,220	8,535	35,868	144,063	37,784	44,744	52,911	32,394	N/A	N/A	N/A	380,059	
1967	14,863	3,094	7,883	7,739	32,491	146,493	35,620	44,651	55,892	33,195	N/A	N/A	N/A	381,921	
1968	17,645	3,649	9,022	9,558	37,110	139,182	38,712	43,596	53,623	33,301	N/A	N/A	N/A	385,398	
1969	19,089	3,794	8,848	10,110	39,477	134,037	41,611	45,347	53,602	32,764	N/A	N/A	N/A	388,679	
1970	21,347	3,926	9,926	10,293	46,009	135,231	39,230	47,722	59,986	31,350	N/A	N/A	N/A	405,020	
1971	23,460	4,513	11,381	11,146	50,276	133,563	40,960	49,448	62,902	30,225	N/A	N/A	N/A	417,874	
1972	23,682	4,492	12,158	11,336	53,082	131,427	41,133	50,004	63,309	31,032	N/A	N/A	N/A	421,655	
1973	27,919	4,972	15,071	12,889	57,247	141,277	41,711	51,307	67,012	33,456	N/A	N/A	N/A	452,841	
1974	25,127	5,038	13,791	11,916	58,345	136,469	37,167	51,504	66,127	27,764	591	323	434,162	471,320	
1975	30,115	4,963	13,990	12,930	63,768	148,670	42,846	57,723	69,191	25,918	721	485	484,906	520,530	
1976	29,621	5,756	13,326	13,743	66,453	143,816	46,816	61,669	75,739	893	513	520,530	524,946	530,530	
1977	36,188	6,158	15,744	14,209	72,828	156,895	46,438	60,029	82,175	28,357	902	607	638	504,459	504,459
1978	37,297	6,396	16,297	15,249	74,745	159,698	50,169	57,958	77,117	28,561	821	755	584	498,916	498,916
1979	35,490	5,888	14,098	13,409	73,209	150,224	49,344	56,174	77,021	28,263	755	207	525	465,357	465,357
1980	31,362	5,802	14,257	12,471	76,133	147,952	48,340	54,081	79,318	27,943	732	207	514	375,743	375,743
1981	31,406	5,611	14,130	12,287	75,178	141,677	46,528	42,836	66,163	28,243	764	207	572	379,821	379,821
1982	31,215	5,461	13,728	12,759	72,850	144,436	45,273	47,236	64,968	26,522	800	207	474	443,332	443,332
1983	30,977	5,898	13,468	12,758	67,700	139,569	40,443	45,333	61,742	24,170	750	207	496	414,958	414,958
1984	31,309	5,525	12,896	11,486	65,308	140,521	35,238	37,720	51,717	21,892	850	207	538	323,324	323,324
1985	25,652	5,171	10,749	10,354	60,823	130,089	31,753	36,445	44,880	18,753	713	361	361	323,324	323,324
1986	25,98	5,300	11,047	11,083	59,685	131,930	33,507	37,692	45,042	17,924	692	391	391	311,714	311,714
1987	21,080	4,959	10,299	9,897	55,124	122,472	30,207	29,930	40,122	16,259	523	270	270	258,396	258,396
1988	23,655	4,906	10,264	10,646	57,206	117,310	25,108	23,258	34,513	15,595	496	270	270	240,681	240,681
1989	24,707	4,838	10,092	9,971	54,605	114,292	23,898	22,916	34,559	14,694	420	308	308	231,170	231,170
1990	24,831	4,625	10,115	9,974	54,700	115,130	22,641	22,964	32,212	13,851	431	240	352	213,178	213,178
1991	20,738	4,209	10,104	9,997	53,739	108,802	20,048	20,048	20,620	12,429	348	256	304	204,181	204,181
1992	20,310	3,753	9,192	9,337	49,262	103,395	20,395	20,395	20,620	12,429	320	270	304	227,006	227,006
1993	20,464	3,425	8,866	8,614	46,281	87,288	14,959	15,388	24,762	11,560	304	270	270	242,181	242,181
1994	20,399	3,380	9,314	9,176	46,537	92,344	18,838	20,254	26,211	11,037	320	294	294	258,396	258,396
1995	20,231	3,479	8,652	8,674	38,955	83,720	19,630	20,554	25,747	9,855	342	318	318	240,681	240,681
1996	16,312	3,303	8,652	8,536	36,004	80,194	19,702	20,475	27,299	10,069	318	306	306	231,170	231,170
1997	14,289	3,051	7,731	7,546	31,435	72,521	18,918	20,109	26,847	10,185	278	268	268	213,178	213,178
1998	13,101	2,946	7,681	7,095	7,095	70,407	18,445	21,822	22,238	9,816	286	231	231	204,181	204,181
1999	13,111	2,671	7,410	6,821	30,124	67,077	17,433	21,685	21,415	9,314	292	231	231	197,584	197,584
2000	12,217	2,805	7,072	6,399	30,271	63,677	15,810	21,908	21,792	9,007	267	224	224	191,444	191,444
2001	16,998	2,416	6,645	5,975	29,138	58,458	15,038	18,387	19,527	8,185	223	251	251	181,261	181,261
2002	16,056	2,341	6,316	5,942	28,702	56,645	14,832	16,958	17,814	7,464	244	217	217	173,555	173,555
2003	15,626	2,316	5,926	6,065	29,376	56,911	15,124	18,155	18,372	6,509	243	217	217	174,794	174,794
2004	14,810	1,724	5,727	5,705	28,872	55,523	14,244	18,273	18,768	6,402	192	180	180	170,439	170,439
2005	13,569	1,512	5,485	5,556	28,095	53,151	13,834	18,558	19,322	6,181	192	180	180	165,682	165,682
2006	14,217	1,470	5,381	5,329	27,058	54,363	14,229	18,556	19,379	5,826	202	167	167	166,196	166,196
2007	15,662	1,563	5,461	5,399	27,871	53,594	13,805	19,25	20,395	6,112	184	207	207	169,547	169,547
2008	16,144	1,577	5,573	5,530	29,119	55,016	13,545	20,050	20,446	6,360	190	183	183	221,175	221,175
2009	15,683	1,685	5,552	5,560	28,509	55,587	12,644	17,790	19,240	6,632	217	189	189	169,321	169,321
2010	15,737	1,754	5,696	5,536	29,290	54,857	12,635	17,830	19,775	6,387	245	195	195	169,984	169,984
2011	15,823	1,742	5,619	5,594	30,856	56,305	11,859	17,513	21,080	6,299	249	234	234	173,197	173,197
<b>AVERAGES:</b>															
1966-69	16,217	3,452	8,243	8,986	36,237	140,944	38,432	44,585	54,007	32,914	N/A	N/A	N/A	384,014	
1970-79	29,025	5,210	13,575	12,710	61,596	143,727	43,581	54,354	50,058	29,149	781	525	525	463,771	
1980-89	27,686	5,347	12,093	11,371	64,461	133,025	36,036	37,752	52,302	21,200	674	437	437	402,383	
1990-99	18,379	3,484	8,824	8,606	41,715	88,088	19,274	20,629	21,172	11,172	327	271	271	247,187	
2000-09	15,098	1,941	5,914	5,746	28,701	56,292	14,311	18,591	19,506	6,868	215	198	198	173,399	

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FEDERAL MID-CONTINENT POPULATION SANDHILL CRANE PERMITS ISSUED IN THE CENTRAL FLYWAY

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	TOTAL
1975	401		158	1,225	4,172	171	198	5,482	56	11,863
1976	341		117	1,195	4,137	265	200	5,060	37	11,352
1977	374		82	1,452	6,294	519	134	4,897	48	13,800
1978	343		209	956	5,798	620	98	5,198	52	13,274
1979	528		159	1,288	4,949	470	63	5,098	43	12,598
1980	437		118	1,082	5,754	510	240	5,239	33	13,413
1981	397		53	1,022	5,796	466	197	5,297	30	13,258
1982	528		147	962	4,714	750	579	4,650	40	12,370
1983	575		175	706	8,033	909	528	7,317	63	18,306
1984	538		113	721	7,436	1,187	544	6,838	43	17,420
1985	555		143	710	6,802	1,102	656	7,417	59	17,444
1986	617		99	595	8,926	1,073	705	7,258	25	19,298
1987	610		128	502	8,778	1,213	517	6,289	30	18,067
1988	512		162	480	6,214	1,472	437	7,053	38	16,368
1989	434		172	430	6,128	1,717	524	8,066	25	17,496
1990	389		143	533	7,268	1,725	646	11,994	22	22,720
1991	501		238	602	3,353	1,618	668	11,142	25	18,147
1992	498		303	582	3,760	1,397	721	9,848	18	17,127
1993	411	575	336	541	4,572	1,277	708	10,407	37	18,864
1994	427	567	320	547	4,790	1,561	636	10,515	49	19,412
1995	571	711	351	564	5,242	1,323	650	10,755	42	20,209
1996	612	837	369	499	5,570	1,391	677	11,334	41	21,330
1997	572	997	325	454	4,934	1,393	757	37,365		
1998	4,937	270	449	6,082	1,385	951	32,523			
1999	4,847	279	516	6,050	1,438	810	33,380			
2000	5,169	283	493	7,451	1,333	721	44,719			
2001	5,869	253	509	8,078	1,315	680	49,410			
2002	5,644	303	496	8,245	619	37,558				
2003 <sup>1</sup>	5,854	273	471	6,030	563	43,199				
2004 <sup>1</sup>	5,784	548	5,788	52,161						
2005 <sup>1</sup>	5,766	494	7,441	51,511						
2006 <sup>1</sup>	4,792	512								
2007 <sup>1</sup>	4,931	480								
2008 <sup>1</sup>	5,772	677								
2009 <sup>1</sup>	4,038	862								
2010 <sup>1</sup>	4,280	701								
2011 <sup>1</sup>	783	575								
<b>AVERAGES:</b>										
1975-79	397		145	1,223	5,070	409	139	5,147	47	12,577
1980-89	520		131	721	6,858	1,040	493	6,542	39	16,344
1990-99	1,377	859	293	529	5,162	1,451	722	17,926	38	28,100
2000-09	5,362	955	262	554	7,216	942	531	58,479	63	74,364
1975-2010	2,190	893	219	690	6,280	1,040	516	24,105	48	35,534

<sup>1</sup> Preliminary

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<sup>2</sup> Harvest Information Program (HIP) or a point-of-sale electronic record (without cost) used to identify crane hunters in lieu of a special sandhill crane hunting permit

<sup>3</sup> States began charging a fee for crane hunting permits which reduces the number of permits issued to hunters that only occasionally come into contact with sandhill cranes.

<sup>4</sup> NM uses a combination of electronic and paper permits.

<sup>5</sup> SD uses a special question in their HIP questionnaire to identify sandhill crane hunters; TX hunters can only obtain crane permits in selected locations.

**TUNDRA SWAN HUNTING PERMITS ISSUED FOR THE EASTERN AND WESTERN POPULATIONS**

YR	EASTERN POPULATION				WESTERN POPULATION				<b>TOTAL</b>	
	MT	ND	SD	NC	VA	UT	NV	MT	AK	
1962						1,000		1,000		1,000
1963						1,000		1,000		1,000
1964						1,000		1,000		1,000
1965						995		995		995
1966						1,000		1,000		1,000
1967						1,000		1,000		1,000
1968						1,000		1,000		1,000
1969						2,500		3,000		3,000
1970						2,500	500	500		3,500
1971						2,495	500	500		3,495
1972						2,500	500	500		3,500
1973						2,500	500	500		3,500
1974						2,500	500	500		3,500
1975						2,500	500	500		3,500
1976						2,500	500	500		3,500
1977						2,488	500	500		3,488
1978						2,500	500	500		3,500
1979						2,500	500	500		3,500
1980						2,500	500	500		3,500
1981						2,500	500	500		3,500
1982						2,500	500	500		3,500
1983						2,500	650	500		3,759
1984						2,500	650	500		4,758
1985	109	1,108	6,120	6,000	6,000	2,488	650	500		9,758
1986	120	1,108	6,170	6,000	6,000	2,488	608	500		9,778
1987	170	1,139	6,139	5,968	5,968	2,499	594	500		9,732
1988	171	1,094	7,094	5,995	5,995	2,500	260	500		112
1989	99	5,444	600	7,211	7,211	2,500	324	500		130
1990	108	500	5,989	600	8,262	2,500	297	500		81
1991	173	1,000	6,000	600	9,804	2,500	258	500		84
1992	204	2,000	1,000	6,000	10,280	2,500	100	500		89
1993	217	2,000	1,502	5,961	600	10,112	2,500	205		170
1994	212	2,000	1,500	6,000	6,000	10,332	2,500	206		3,375
1995	232	2,000	1,500	6,000	600	10,391	2,750	383		216
1996	291	2,000	1,500	6,000	600	9,207	2,750	376		500
1997	372	2,000	1,235	5,000	600	9,041	2,750	381		193
1998	364	2,000	1,077	5,000	600	9,245	2,750	492		500
1999	429	2,000	1,216	5,000	600	9,245	2,750	518		192
2000	432	2,000	863	5,000	600	8,895	2,750	518		227
2001	434	2,000	850	5,000	600	8,884	2,000	493		164
2002	398	2,000	983	5,000	600	8,981	2,000	308		500
2003	423	2,200	1,002	5,000	600	9,053	1,998	264		255
2004	320	2,200	820	5,000	600	8,940	2,000	330		500
2005	348	2,200	811	5,000	600	8,959	1,997	370		176
2006	340	2,200	811	5,000	600	8,951	1,994	605		500
2007	323	2,200	1,064	5,000	600	9,187	2,000	650		162
2008	307	2,200	958	5,000	600	9,065	2,000	535		500
2009	327	2,200	1,242	5,000	600	9,369	2,000	472		500
2010	369	2,200	1,234	5,000	600	9,403	2,000	469		500
2011	320	2,200	1,156	5,000	600	9,276	2,000	527		500

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# **WATERFOWL HUNTER ACTIVITY AND SUCCESS**

*D.E. SHARP S:\WKFILES\DATABOOK\ACTIVITY.123*

### ESTIMATES OF ACTIVE DUCK HUNTERS BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	14,000	16,900	12,300	20,200	2,200	39,200	13,800	24,000	86,300	4,600
2000	14,000	14,900	11,300	19,200	3,100	32,200	13,500	18,400	115,600	4,300
2001	17,533	16,344	11,044	18,392	5,054	36,414	10,781	22,411	139,853	4,248
2002	12,733	15,426	14,742	16,976	4,385	34,385	14,691	19,158	103,372	4,413
2003 <sup>2</sup>	13,400	15,100	14,200	18,500	3,900	37,100	13,800	18,200	61,100	4,300
2004 <sup>2</sup>	13,600	19,200	14,400	16,800	3,300	36,900	15,300	18,800	84,900	3,400
2005 <sup>2</sup>	12,300	11,600	12,100	15,600	2,900	36,300	16,100	15,500	91,500	3,600
2006 <sup>2</sup>	12,416	12,663	12,941	15,992	2,424	29,691	14,236	15,333	84,228	3,960
2007 <sup>2</sup>	11,882	13,021	11,258	14,752	2,820	32,192	19,437	14,459	80,213	4,587
2008 <sup>2</sup>	13,750	16,531	12,553	14,517	2,552	26,185	14,194	14,205	72,720	3,630
2009 <sup>2</sup>	13,257	14,259	11,532	12,900	1,784	30,604	11,692	16,638	67,382	4,148
2010 <sup>2</sup>	9,094	13,053	10,157	13,394	2,617	24,760	13,595	16,521	66,982	3,326
2011 <sup>2</sup>	12,151	13,534	11,647	14,656	2,945	32,005	13,692	16,080	74,700	4,018

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

### ESTIMATES OF TOTAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
											CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	79,500	126,800	(70,500)	152,200	14,100	224,000	107,500	151,100	508,900	30,100	1,394,200	1,145,900	4,361,600	1,451,900	8,353,600
2000	81,000	107,400	(72,500)	129,400	24,600	166,300	91,800	105,500	704,900	23,900	1,434,800	1,164,900	4,222,700	1,251,200	8,073,600
2001	114,178	100,989	(72,935)	145,880	29,882	188,020	67,697	150,044	720,993	26,570	1,544,253	1,187,400	4,265,100	1,188,200	8,184,953
2002	67,767	102,744	(79,809)	136,112	24,252	179,029	107,583	123,655	539,665	25,951	1,306,759	1,162,300	4,004,600	1,163,600	7,637,259
2003 <sup>2</sup>	86,000	107,600	(70,600)	135,000	30,900	197,700	103,500	119,400	379,200	23,000	1,182,300	1,106,900	4,033,400	1,118,500	7,441,100
2004 <sup>2</sup>	85,300	124,000	(71,500)	129,100	25,600	194,200	130,300	110,200	497,000	31,300	1,327,000	938,600	3,857,200	1,203,500	7,326,300
2005 <sup>2</sup>	66,700	87,700	(64,300)	110,900	16,700	186,700	107,700	86,200	488,500	19,700	1,170,800	1,067,300	3,075,500	1,165,600	6,479,200
2006 <sup>2</sup>	64,993	85,416	(60,018)	111,456	15,611	149,988	110,707	92,213	424,851	22,485	1,077,721	1,046,183	3,364,288	1,300,253	6,788,445
2007 <sup>2</sup>	66,072	82,149	(57,960)	121,493	18,665	157,619	154,609	84,346	418,536	23,876	1,127,364	1,076,255	3,479,080	1,295,713	6,978,412
2008 <sup>2</sup>	72,852	106,154	(56,644)	104,014	14,836	119,806	98,139	79,959	331,573	18,768	946,103	1,001,258	3,410,043	1,328,957	6,686,361
2009 <sup>2</sup>	79,367	92,081	(50,491)	94,087	17,027	165,853	87,395	84,731	410,219	22,253	1,053,013	1,104,107	3,455,486	1,159,302	6,771,907
2010 <sup>2</sup>	51,168	79,064	(49,734)	98,535	15,860	115,550	89,935	71,455	355,088	18,676	895,331	1,072,404	3,404,160	1,218,952	6,590,847
2011 <sup>2</sup>	64,567	96,138	(60,584)	124,751	16,669	162,591	107,778	85,907	480,070	19,611	1,158,083	1,091,364	3,637,170	1,187,091	7,073,708

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.

<sup>2</sup> Preliminary

<sup>3</sup> Pacific Flyway total includes Alaska

### AVERAGE SEASONAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	5.68	7.50	5.73	7.53	6.41	5.71	7.79	6.30	5.90	6.54
2000	5.79	7.21	6.42	6.74	7.94	5.16	6.80	5.73	6.10	5.56
2001	6.51	6.18	6.60	7.93	5.91	5.16	6.28	6.70	5.16	6.25
2002	5.32	6.66	5.41	8.02	5.53	5.21	7.32	6.45	5.22	5.88
2003 <sup>2</sup>	6.42	7.13	4.97	7.30	7.92	5.33	7.50	6.56	6.21	5.35
2004 <sup>2</sup>	6.27	6.46	4.97	7.68	7.76	5.26	8.52	5.86	5.85	9.21
2005 <sup>2</sup>	5.42	7.56	5.31	7.11	5.76	5.14	6.69	5.56	5.34	5.47
2006 <sup>2</sup>	5.23	6.75	4.64	6.97	6.44	5.05	7.78	6.01	5.04	5.68
2007 <sup>2</sup>	5.56	6.31	5.15	8.24	6.62	4.90	7.95	5.83	5.22	5.20
2008 <sup>2</sup>	5.30	6.42	4.51	7.16	5.81	4.58	6.91	5.63	4.56	5.17
2009 <sup>2</sup>	5.99	6.46	4.38	7.29	9.54	5.42	7.47	5.09	6.09	5.37
2010 <sup>2</sup>	5.63	6.06	4.90	7.36	6.06	4.67	6.62	4.33	5.30	5.62
2011 <sup>2</sup>	5.31	7.10	5.20	8.51	5.66	5.08	7.87	5.34	6.43	4.88

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

### AVERAGE SEASONAL DUCK BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	6.5	13.9	10.0	9.4	11.8	13.7	20.0	12.6	15.9	10.4
2000	8.4	15.2	12.4	11.4	19.6	13.3	17.2	11.9	15.3	10.1
2001	7.8	11.1	11.2	11.8	12.2	13.5	15.3	13.1	12.1	10.1
2002	7.8	13.9	8.6	13.1	11.4	15.0	15.8	13.1	9.5	9.9
2003 <sup>2</sup>	10.3	15.5	9.4	12.5	15.6	13.4	16.3	14.0	13.4	9.2
2004 <sup>2</sup>	9.0	14.2	8.4	9.9	10.6	14.7	22.8	11.4	10.7	12.6
2005 <sup>2</sup>	8.1	13.7	9.6	10.6	11.4	14.3	17.8	11.6	13.7	9.9
2006 <sup>2</sup>	8.7	12.8	8.7	10.6	19.3	12.8	21.2	12.6	12.4	11.4
2007 <sup>2</sup>	9.5	12.7	10.6	14.1	14.7	11.6	23.6	12.7	13.4	10.9
2008 <sup>2</sup>	8.1	13.9	9.5	14.3	13.3	11.0	17.7	11.9	10.5	9.2
2009 <sup>2</sup>	9.1	13.6	9.1	12.2	18.9	15.5	22.5	13.5	14.5	10.7
2010 <sup>2</sup>	8.6	14.3	10.6	11.5	13.4	13.0	18.0	11.3	14.7	10.8
2011 <sup>2</sup>	8.7	15.0	8.7	15.2	10.7	14.4	22.2	14.1	18.6	9.1

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

**ESTIMATES OF ACTIVE GOOSE HUNTERS BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	15,300	14,400	10,700	19,400	1,700	30,600	12,000	24,700	67,900	3,300
2000	18,400	17,300	12,300	19,500	2,700	26,000	7,300	21,600	67,000	4,600
2001	16,790	15,715	10,623	18,056	3,393	26,500	7,818	26,283	76,647	3,720
2002	16,276	15,248	13,848	15,290	3,367	23,626	7,335	22,398	66,583	4,034
2003 <sup>2</sup>	15,900	16,100	14,000	18,300	2,500	27,600	8,500	20,100	47,000	4,300
2004 <sup>2</sup>	14,700	15,500	12,800	15,100	2,300	24,700	10,000	19,200	47,400	3,600
2005 <sup>2</sup>	14,600	12,000	9,700	15,400	2,000	26,500	9,900	15,400	58,800	4,000
2006 <sup>2</sup>	12,993	12,038	11,194	13,673	1,816	23,982	9,007	17,527	56,512	3,903
2007 <sup>2</sup>	14,642	14,294	11,932	12,460	1,711	23,123	10,843	14,010	63,638	3,927
2008 <sup>2</sup>	16,009	14,692	10,206	14,522	1,488	21,322	7,315	15,760	49,354	3,692
2009 <sup>2</sup>	15,203	12,213	12,056	11,828	961	20,707	7,616	14,558	36,708	3,618
2010 <sup>2</sup>	10,651	10,700	10,689	13,778	1,722	21,609	6,526	14,174	45,974	3,845
2011 <sup>2</sup>	11,962	12,900	8,949	12,126	2,490	24,507	7,460	11,974	42,256	3,685

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

**ESTIMATES OF TOTAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
											CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	93,700	93,300	(60,300)	144,100	6,500	160,700	54,200	165,800	232,300	16,600	967,200	516,300	2,248,800	768,200	4,500,500
2000	111,800	112,200	(80,800)	152,000	16,400	123,500	37,000	126,400	285,500	26,400	991,200	519,800	2,229,200	716,300	4,456,500
2001	104,290	89,663	(59,640)	148,189	14,621	131,727	30,499	172,841	217,387	22,274	931,491	855,800	2,157,800	651,900	4,596,991
2002	91,827	79,771	(66,526)	128,990	19,605	118,447	36,672	148,618	192,924	22,180	839,034	852,900	2,415,900	625,000	4,732,834
2003 <sup>2</sup>	111,400	116,200	(65,200)	137,500	13,300	128,900	44,100	146,700	149,700	24,600	872,400	830,800	2,360,700	656,200	4,720,100
2004 <sup>2</sup>	92,200	98,000	(61,900)	117,500	11,400	123,100	44,500	122,600	140,600	24,800	774,700	672,100	2,086,900	668,300	4,202,000
2005 <sup>2</sup>	84,300	84,800	(42,500)	129,200	8,300	132,900	42,900	93,300	183,500	20,900	780,100	796,300	1,928,500	638,400	4,143,300
2006 <sup>2</sup>	76,791	60,994	(48,671)	99,211	5,778	110,170	49,321	106,573	193,737	20,099	722,675	691,505	1,950,358	642,559	4,007,097
2007 <sup>2</sup>	84,178	79,723	(51,146)	106,751	6,625	99,258	49,448	82,987	197,414	20,324	726,709	801,635	1,807,690	595,597	3,931,631
2008 <sup>2</sup>	105,484	83,525	(39,564)	114,958	5,612	94,457	41,584	86,638	170,690	20,327	723,277	797,235	1,733,803	597,100	3,851,415
2009 <sup>2</sup>	84,847	78,955	(48,432)	95,594	4,703	98,155	33,183	82,845	108,890	16,979	604,153	804,520	1,773,921	607,189	3,789,783
2010 <sup>2</sup>	60,298	56,936	(42,167)	116,776	5,630	90,410	29,129	69,216	152,364	20,027	600,785	688,930	1,579,897	583,750	3,453,361
2011 <sup>2</sup>	67,759	75,795	(40,155)	112,846	15,117	109,313	29,642	66,827	192,755	17,913	687,965	656,953	1,667,331	561,512	3,573,761

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.

<sup>2</sup> Preliminary

<sup>3</sup> Pacific Flyway total includes Alaska

**AVERAGE SEASONAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	6.12	6.48	5.64	7.43	3.82	5.25	4.52	6.71	3.42	5.03
2000	6.08	6.49	6.57	7.79	6.07	4.75	5.07	5.85	4.26	5.74
2001	6.21	5.71	5.61	8.21	4.31	4.97	3.90	6.58	2.84	5.99
2002	5.64	5.23	4.80	8.44	5.82	5.01	5.00	6.64	2.90	5.50
2003 <sup>2</sup>	7.01	7.22	4.66	7.51	5.32	4.67	5.19	7.30	3.19	5.72
2004 <sup>2</sup>	6.27	6.32	4.84	7.78	4.96	4.98	4.45	6.39	2.97	6.89
2005 <sup>2</sup>	5.77	7.07	4.38	8.39	4.15	5.02	4.33	6.06	3.12	5.23
2006 <sup>2</sup>	5.91	5.07	4.35	7.26	3.18	4.59	5.48	6.08	3.43	5.15
2007 <sup>2</sup>	5.75	5.58	4.29	8.57	3.87	4.29	4.56	5.92	3.10	5.18
2008 <sup>2</sup>	6.59	5.69	3.88	7.92	3.77	4.43	5.68	5.50	3.46	5.51
2009 <sup>2</sup>	5.58	6.46	4.02	8.08	4.89	4.74	4.36	5.69	2.97	4.69
2010 <sup>2</sup>	5.66	5.32	3.94	8.48	3.27	4.18	4.46	4.88	3.31	5.21
2011 <sup>2</sup>	5.66	5.88	4.49	9.31	6.07	4.46	3.97	5.58	4.56	4.86

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

**AVERAGE SEASONAL GOOSE BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)<sup>1</sup>**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	4.7	5.9	3.2	5.3	4.9	5.7	3.6	6.8	8.1	3.7
2000	5.7	6.9	6.9	6.4	4.6	5.4	8.4	6.1	9.5	6.3
2001	4.2	5.6	4.5	5.6	6.2	6.1	3.1	7.2	6.4	4.0
2002	4.9	7.6	3.7	4.6	3.3	5.5	4.9	7.0	5.9	4.0
2003 <sup>2</sup>	7.6	9.9	4.8	6.3	4.0	5.4	4.9	9.2	6.4	5.8
2004 <sup>2</sup>	5.2	6.7	3.6	4.8	3.9	5.6	5.0	6.8	5.2	6.3
2005 <sup>2</sup>	6.0	9.1	4.0	7.4	3.8	5.8	4.3	6.7	7.8	5.0
2006 <sup>2</sup>	6.8	7.5	4.6	5.1	2.6	6.4	6.1	9.1	5.3	5.9
2007 <sup>2</sup>	5.4	5.9	4.8	5.7	6.3	6.0	5.7	7.1	5.7	3.3
2008 <sup>2</sup>	6.1	8.2	4.0	6.4	3.2	6.3	5.5	7.7	5.5	7.5
2009 <sup>2</sup>	6.2	9.4	3.8	7.0	6.0	6.6	4.3	8.1	5.4	5.8
2010 <sup>2</sup>	6.6	7.1	3.8	7.8	3.2	6.0	4.9	6.8	5.5	6.4
2011 <sup>2</sup>	4.6	7.1	4.9	6.4	5.8	6.0	4.3	8.9	5.6	4.3

<sup>1</sup> Estimates for NM, CO, WY, and MT are statewide.

<sup>2</sup> Preliminary

**Estimated active Mid-Continent sandhill crane hunters<sup>1</sup> in the Central Flyway.**

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	TOTAL
1975	226		69	806	2,896	80	117	2,733	22	6,949
1976	203		68	752	1,328	148	80	2,497	16	5,092
1977	189		40	921	4,126	339	77	2,329	27	8,048
1978	190		86	836	3,776	334	50	2,390	21	7,683
1979	275		61	745	3,225	307	29	2,356	13	7,011
1980	216		50	625	3,387	275	160	2,439	12	7,164
1981	216		23	598	3,315	269	103	2,543	14	7,081
1982	138		56	386	2,429	342	260	1,553	8	5,172
1983	211		64	253	3,551	384	225	2,435	20	7,143
1984	206		51	301	3,189	467	208	2,380	19	6,821
1985	187		37	216	2,383	372	168	2,613	12	5,988
1986	106		17	178	3,095	299	149	1,991	5	5,840
1987	113		29	133	2,529	358	120	1,942	5	5,229
1988	117		48	171	1,779	531	78	2,497	11	5,232
1989	74		52	152	2,018	492	153	2,805	6	5,752
1990	101		33	180	2,614	395	172	4,130	6	7,631
1991	153		69	220	1,674	370	139	3,231	3	5,859
1992	96		95	182	1,776	330	153	2,655	7	5,294
1993	87	294	97	218	2,223	357	140	3,602	5	7,023
1994	93	293	79	211	2,497	456	151	3,350	11	7,141
1995	154	393	118	211	2,408	331	143	3,707	6	7,471
1996	91	382	82	166	2,744	355	169	3,356	9	7,354
1997	67	452	68	124	2,386	264	178	4,515	10	8,064
1998	96	480	43	155	2,785	345	237	4,022	10	8,173
1999	133	533	60	204	2,444	375	173	2,699	8	6,629
2000	192	430	64	160	2,481	223	209	3,180	11	6,950
2001	202	555	72	173	2,934	391	145	3,554	13	8,039
2002	175	517	85	166	2,407	237	144	4,037	15	7,783
2003 <sup>2</sup>	236	495	60	244	2,271	64	114	4,821	10	8,315
2004 <sup>2</sup>	315	539	93	252	2,491	265	79	5,121	16	9,171
2005 <sup>2</sup>	280	274	90	233	3,370	259	165	5,383	24	10,078
2006 <sup>2</sup>	144	445	71	245	3,272	243	144	5,531	25	10,120
2007 <sup>2</sup>	158	255	82	241	3,145	166	57	5,685	19	9,808
2008 <sup>2</sup>	191	283	84	239	2,815	255	64	6,338	24	10,293
2009 <sup>2</sup>	159	213	50	286	3,546	371	63	3,179	67	7,934
2010 <sup>2</sup>	302	182	93	192	3,474	332	52	4,187	29	8,843
2011 <sup>2</sup>	138	449	95	206	3,733	418	44	2,712	41	7,836

<b>AVERAGES:</b>										
1975-79	217		65	812	3,070	242	71	2,461	20	6,957
1980-89	158		43	301	2,768	379	162	2,320	11	6,142
1990-99	107	404	74	187	2,355	358	166	3,527	8	7,064
2000-09	205	401	75	224	2,873	247	118	4,683	22	8,849
1975-2010	169	390	65	316	2,744	316	135	3,383	15	7,338

<sup>1</sup> Those permittees reporting hunting cranes 1 or more times

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<sup>2</sup> Preliminary

**NUMBER OF ACTIVE TUNDRA SWAN HUNTERS FOR THE EASTERN AND WESTERN POPULATIONS (STATE OF HARVEST)**

YR	EASTERN POPULATION				WESTERN POPULATION				TOTAL
	MT	ND	SD	NC	VA	UT	NV	MT	
1964						940			940
1965	1915	915				915	915		
1966	950	950				950	950		
1967	910	910				910	910		
1968	930	930				930	930		
1969	2,225					2,225	2,225		
1970	2,200	2,200				2,475	2,475		
1971	2,146	2,146				2,806	2,806		
1972	2,100	2,100				2,765	2,765		
1973	2,175	2,175				2,780	2,780		
1974	2,200	2,200				2,935	2,935		
1975	2,175	2,175				2,915	2,915		
1976	2,150	2,150				2,940	2,940		
1977	2,264	2,264				2,644	2,644		
1978	2,150	2,150				2,870	2,870		
1979	2,150	2,150				2,930	2,930		
1980	2,100	2,100				2,895	2,895		
1981	2,225	2,225				3,000	3,000		
1982	2,200	2,200				2,940	2,940		
1983	2,125	2,125				2,946	2,946		
1984	2,150	2,150				3,007	3,007		
1985	2,021	2,021				2,949	2,949		
1986	2,075	2,075				3,874	3,874		
1987	4,939	4,939				7,872	7,872		
1988	5,120	5,120				7,764	7,764		
1989	5,609	5,609				7,843	7,843		
1990	5,945	5,945				8,105	8,105		
1991	4,859	4,859				8,613	8,613		
1992	4,849	4,849				9,478	9,478		
1993	4,675	4,675				10,251	10,251		
1994	4,802	4,802				10,699	10,699		
1995	4,790	4,790				10,831	10,831		
1996	4,776	4,776				11,085	11,085		
1997	4,773	4,773				10,901	10,901		
1998	4,792	4,792				10,076	10,076		
1999	4,762	4,762				10,440	10,440		
2000	4,759	4,759				12,240	12,240		
2001	4,753	4,753				10,322	10,322		
2002	4,750	4,750				10,239	10,239		
2003	4,757	4,757				10,239	10,239		
2004	4,764	4,764				10,239	10,239		
2005	4,715	4,715				10,239	10,239		
2006	4,047	4,047				10,239	10,239		
2007	4,074	4,074				10,239	10,239		
2008	4,126	4,126				10,239	10,239		
2009	4,244	4,244				10,239	10,239		
2010	4,322	4,322				10,239	10,239		
2011	4,246	4,246				10,239	10,239		
	4,200	4,200				10,239	10,239		
	454	454				10,239	10,239		
	7,346	7,346				10,239	10,239		
	740	740				10,239	10,239		
	1,760	1,760				10,239	10,239		
	192	192				10,239	10,239		

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AVERAGE SEASONAL TUNDRA SWAN BAG (RETRIEVED & UNRETRIEVED) PER ACTIVE HUNTER

YR	EASTERN POPULATION					WESTERN POPULATION					TOTAL
	MI	ND	SD	NC	VA	UT	NV	MI	AK	TOTAL	
1964						0.45				0.45	0.45
1965						0.43				0.43	0.43
1966						0.60				0.60	0.60
1967						0.37				0.37	0.37
1968						0.67				0.67	0.67
1969						0.74				0.79	0.79
1970						0.57				0.67	0.67
1971						0.65				0.53	0.53
1972						0.60				0.52	0.52
1973						0.55				0.57	0.52
1974						0.66				0.49	0.60
1975						0.72				0.90	0.72
1976						0.56				0.71	0.71
1977						0.71				0.57	0.71
1978						0.58				0.40	0.55
1979						0.83				0.25	0.84
1980						0.70				0.25	0.84
1981						0.71				0.61	0.61
1982						0.66				0.38	0.63
1983						0.60				0.63	0.61
1984						0.51				0.74	0.60
1985						0.37				0.72	0.55
1986						0.55				0.72	0.50
1987						0.60				0.40	0.53
1988						0.58				0.44	0.53
1989						0.29				0.26	0.55
1990						0.53				0.85	0.52
1991						0.53				0.80	0.54
1992						0.62				0.38	0.53
1993						0.61				0.42	0.53
1994						0.41				0.43	0.52
1995						0.82				0.84	0.52
1996						0.41				0.42	0.49
1997						0.62				0.43	0.50
1998						0.62				0.43	0.50
1999						0.47				0.42	0.49
2000						0.84				0.36	0.63
2001						0.61				0.32	0.49
2002						0.65				0.35	0.55
2003						0.51				0.45	0.53
2004						0.41				0.43	0.53
2005						0.67				0.32	0.49
2006						0.45				0.31	0.46
2007						0.64				0.35	0.52
2008						0.51				0.44	0.55
2009						0.49				0.36	0.50
2010						0.56				0.37	0.45
2011						0.45				0.21	0.49

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# **DUCK HARVESTS IN THE UNITED STATES**

*D.E. SHARP FILE S:\DATABOOK\TITLES\DKHARV.123*

### ESTIMATED REGULAR SEASON MALLARD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	38,337	114,167	29,678	91,025	7,851	254,256	114,589	145,196	182,755	17,675	995,529	444,068	3,136,859	1,318,473	5,894,929
2000	49,420	102,846	29,211	118,548	21,894	182,521	116,379	110,607	283,116	21,447	1,035,989	522,968	3,272,671	1,237,479	6,069,107
2001	80,906	97,739	27,151	133,947	22,872	242,147	92,830	154,993	300,903	24,870	1,178,358	472,682	2,796,047	1,031,568	5,478,655
2002	43,032	93,112	22,263	112,577	20,701	226,961	121,494	117,085	232,687	23,736	1,013,648	538,846	2,374,276	906,787	4,833,557
2003 <sup>1</sup>	59,600	95,711	38,200	127,992	25,148	231,335	110,031	124,593	130,070	19,430	962,110	427,301	2,482,378	1,058,281	4,930,070
2004 <sup>1</sup>	47,854	133,582	32,575	95,874	15,646	223,924	186,755	93,993	117,021	22,210	969,434	422,004	2,199,931	940,160	4,531,529
2005 <sup>1</sup>	31,089	84,193	26,871	89,415	8,126	233,142	125,375	81,701	171,208	17,025	868,145	444,305	2,049,383	1,105,095	4,466,928
2006 <sup>1</sup>	44,782	55,780	18,231	86,754	12,421	162,300	126,446	72,734	111,196	19,308	709,952	399,651	2,286,251	1,272,165	4,668,019
2007 <sup>1</sup>	39,393	61,041	19,229	91,047	9,276	171,224	219,572	83,640	86,931	25,345	806,698	429,917	2,514,119	1,127,524	4,878,258
2008 <sup>1</sup>	48,486	98,160	27,156	90,391	11,394	139,219	97,524	76,643	70,234	17,581	676,788	503,480	2,281,761	1,092,094	4,554,123
2009 <sup>1</sup>	42,670	80,574	25,348	84,027	13,241	169,224	104,072	108,581	74,524	19,214	721,475	419,279	2,075,916	917,944	4,134,614
2010 <sup>1</sup>	28,241	76,639	26,288	75,236	13,642	105,146	90,298	83,910	89,514	14,300	603,214	394,429	2,228,872	939,498	4,166,013
2011 <sup>1</sup>	27,372	85,163	17,263	104,793	15,455	187,683	101,595	100,254	113,557	20,075	773,210	315,897	2,240,248	1,079,618	4,408,973

#### AVERAGES:

1999-2011 44,706 90,670 26,113 100,125 15,205 194,545 123,612 104,148 151,055 20,170 870,350 441,141 2,456,824 1,078,976 4,847,290

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON GADWALL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	7,081	27,189	1,663	16,045	2,535	106,500	62,244	41,960	290,029	1,306	556,552	62,212	1,069,106	133,826	1,821,696
2000	8,540	29,363	2,570	23,452	7,003	94,423	44,235	24,162	373,472	2,193	609,413	67,496	1,267,013	132,510	2,076,432
2001	8,062	19,154	1,682	13,535	6,584	82,880	25,834	29,023	302,957	2,073	491,784	33,785	845,701	122,398	1,493,668
2002	5,121	36,572	2,137	21,212	4,732	98,282	40,718	36,700	163,686	2,482	411,642	39,803	661,701	118,960	1,232,106
2003 <sup>1</sup>	10,360	41,063	1,860	20,928	7,480	96,155	40,657	37,432	163,195	3,600	422,730	38,479	851,315	154,056	1,466,580
2004 <sup>1</sup>	8,574	41,374	1,786	12,848	4,364	125,440	69,687	35,867	178,924	4,194	483,058	24,269	654,488	202,161	1,363,976
2005 <sup>1</sup>	10,388	21,629	1,198	9,495	5,157	95,382	57,475	28,511	269,041	1,686	499,962	34,337	635,321	194,332	1,363,952
2006 <sup>1</sup>	9,602	30,594	1,582	12,459	3,892	63,324	68,983	34,033	236,409	2,498	463,376	33,252	803,393	244,379	1,544,400
2007 <sup>1</sup>	7,914	27,687	2,069	10,820	2,978	57,159	87,577	25,697	169,311	2,614	393,826	38,950	842,192	199,854	1,474,822
2008 <sup>1</sup>	10,409	34,080	2,451	14,915	3,177	46,058	54,380	24,876	147,137	1,941	339,424	36,313	906,308	182,226	1,464,271
2009 <sup>1</sup>	9,482	27,589	3,466	13,059	4,626	93,530	68,047	31,363	207,963	2,091	461,216	33,448	713,277	193,833	1,401,774
2010 <sup>1</sup>	4,137	30,940	1,766	9,262	3,782	55,061	56,302	21,671	182,980	1,735	367,636	53,420	1,098,694	215,534	1,735,284
2011 <sup>1</sup>	4,136	29,553	4,384	16,134	3,768	65,673	71,914	20,910	337,206	2,305	555,983	68,561	1,473,197	213,633	2,311,374

#### AVERAGES:

1999-2011 7,985 30,522 2,201 14,936 4,621 83,067 57,543 30,170 232,485 2,363 465,892 43,410 909,362 177,516 1,596,180

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON AMERICAN WIGEON HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	4,070	7,075	3,741	7,714	2,077	22,536	14,452	11,400	126,778	1,828	201,671	49,592	170,804	399,611	821,678
2000	4,620	12,520	1,456	13,143	5,013	22,025	10,811	8,680	136,975	1,868	217,111	38,970	217,539	301,307	774,927
2001	9,052	6,265	1,842	6,378	6,353	24,450	7,289	12,227	128,029	3,036	204,921	37,637	172,897	323,570	739,025
2002	9,067	13,032	1,861	14,967	3,509	30,998	14,171	14,653	85,108	3,441	190,807	32,466	144,517	297,414	665,204
2003 <sup>1</sup>	8,697	15,513	1,156	13,328	6,147	23,742	11,322	15,374	52,028	3,699	151,006	39,505	120,737	283,489	594,737
2004 <sup>1</sup>	9,038	13,371	2,491	11,272	3,879	44,458	23,171	17,593	97,800	3,241	226,314	19,374	149,793	354,438	749,919
2005 <sup>1</sup>	6,340	7,332	2,111	9,043	3,748	22,286	16,307	7,478	126,495	2,230	203,370	20,686	121,240	356,128	701,424
2006 <sup>1</sup>	7,020	7,944	2,248	10,706	2,932	16,704	21,394	11,382	115,868	2,363	198,561	39,999	163,839	451,819	854,218
2007 <sup>1</sup>	5,069	6,638	2,587	9,377	3,207	12,476	15,504	6,298	93,396	3,100	157,652	25,536	148,774	486,885	818,847
2008 <sup>1</sup>	9,314	17,760	2,255	11,450	3,141	13,690	17,279	9,971	68,468	2,337	155,665	29,563	160,218	527,669	873,115
2009 <sup>1</sup>	5,438	11,511	2,491	8,935	3,824	21,181	19,257	10,530	98,046	4,082	185,295	33,514	96,709	396,248	711,766
2010 <sup>1</sup>	2,968	8,415	1,079	11,542	6,432	11,575	14,585	5,551	68,123	2,221	132,491	39,782	129,962	411,513	713,748
2011 <sup>1</sup>	4,623	8,262	1,507	10,703	2,612	12,294	16,736	8,020	98,896	2,062	165,715	44,367	135,571	408,483	754,136

#### AVERAGES:

1999-2011 6,563 10,434 2,063 10,658 4,067 21,417 15,560 10,704 99,693 2,731 183,891 34,692 148,662 384,506 751,750

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON NORTHERN PINTAIL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	895	5,410	998	5,245	1,091	26,716	6,259	12,984	69,435	871	129,904	25,101	153,304	230,405	538,714
2000	2,310	7,453	857	7,474	3,022	18,645	5,626	8,211	81,975	325	135,898	20,050	153,036	203,033	512,017
2001	1,839	7,339	641	6,845	2,426	21,272	3,752	12,474	79,077	386	136,051	20,619	125,148	159,798	441,616
2002	1,738	4,624	758	4,224	631	17,181	2,078	9,312	19,590	566	60,702	17,220	99,759	130,183	307,864
2003 <sup>1</sup>	2,174	4,157	653	2,974	2,063	17,806	1,132	6,149	18,383	148	55,639	18,134	119,005	144,020	336,798
2004 <sup>1</sup>	1,275	3,280	705	3,030	711	21,004	5,706	4,763	22,330	477	63,281	10,254	90,542	147,040	311,117
2005 <sup>1</sup>	764	3,666	685	3,052	1,113	20,670	5,614	5,141	37,834	381	78,920	17,339	107,276	208,495	412,030
2006 <sup>1</sup>	726	2,704	333	1,477	1,706	10,596	2,331	4,781	41,426	270	66,350	20,282	104,286	239,423	430,341
2007 <sup>1</sup>	1,778	2,591	345	4,328	973	11,585	5,447	5,794	54,840	547	88,228	19,076	162,416	259,447	529,167
2008 <sup>1</sup>	1,781	6,872	588	4,218	876	7,657	4,982	3,626	41,198	431	72,229	21,298	158,218	284,676	536,421
2009 <sup>1</sup>	2,649	5,664	1,083	3,093	968	18,840	6,599	8,492	42,868	747	91,003	15,056	106,727	285,976	498,762
2010 <sup>1</sup>	630	5,437	883	2,992	2,509	11,250	11,153	12,917	68,821	417	117,009	23,522	196,185	367,952	704,668
2011 <sup>1</sup>	2,311	5,243	959	9,585	1,927	28,635	16,736	14,752	106,893	546	187,587	17,831	212,499	391,533	809,450
<b>AVERAGES:</b>															
1999-2011	1,605	4,957	730	4,503	1,540	17,835	5,955	8,415	52,667	470	98,677	18,906	137,569	234,768	489,920

<sup>1</sup>Preliminary

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<sup>2</sup>Pacific Flyway total includes Alaska

### ESTIMATES OF REGULAR SEASON NORTHERN SHOVELER HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	1,791	4,578	914	6,017	1,303	22,899	5,462	14,250	63,389	697	121,300	17,350	201,054	192,837	532,541
2000	2,030	1,789	771	3,221	1,548	11,339	3,530	5,630	71,761	569	102,188	17,950	196,306	131,756	448,200
2001	1,414	3,401	240	4,356	2,426	17,957	1,394	16,302	85,581	145	133,216	21,468	235,899	148,577	539,160
2002	2,067	3,783	551	4,499	1,538	19,464	3,873	9,449	41,357	1,045	87,626	14,688	126,468	140,152	368,934
2003 <sup>1</sup>	4,732	4,258	754	5,618	1,934	19,290	4,838	9,759	36,593	493	88,269	12,748	206,977	157,744	465,738
2004 <sup>1</sup>	2,781	5,298	188	2,424	1,972	22,404	7,781	9,331	51,444	858	104,481	9,865	158,905	206,157	479,408
2005 <sup>1</sup>	3,972	4,277	399	3,617	1,150	20,208	8,688	8,974	86,368	163	137,816	18,672	195,236	189,925	541,649
2006 <sup>1</sup>	3,389	6,254	749	5,353	2,985	16,080	6,720	7,285	55,443	135	104,393	12,496	225,100	301,358	643,347
2007 <sup>1</sup>	5,780	4,210	1,035	7,053	1,718	19,987	10,476	10,455	80,465	61	141,240	15,045	289,071	369,431	814,787
2008 <sup>1</sup>	3,561	2,400	392	4,068	1,278	12,066	7,632	4,834	28,839	144	65,214	11,415	251,531	259,185	587,345
2009 <sup>1</sup>	2,371	7,674	2,058	4,124	566	39,909	7,573	11,888	62,213	299	138,675	19,202	283,039	202,584	643,500
2010 <sup>1</sup>	1,889	9,321	785	5,842	1,237	21,743	8,472	11,957	78,354	555	140,155	29,651	475,080	289,755	934,641
2011 <sup>1</sup>	730	8,262	2,192	9,904	642	28,012	9,545	8,736	106,360	364	174,747	32,087	375,091	334,732	916,657
<b>AVERAGES:</b>															
1999-2011	2,808	5,039	848	5,084	1,561	20,874	6,614	9,912	65,244	425	118,409	17,895	247,674	224,938	608,916

<sup>1</sup>Preliminary

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<sup>2</sup>Pacific Flyway total includes Alaska

### ESTIMATED REGULAR SEASON WOOD DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	1,628	4,439	1,330	11,725	422	2,726	7,965	6,334	87,574	348	124,491	391,514	924,461	52,247	1,492,713
2000	1,750	2,683	600	6,958	1,622	1,963	3,640	5,630	93,761	81	118,688	378,122	761,300	54,547	1,312,657
2001	1,980	3,938	1,362	2,334	1,271	1,105	1,394	3,582	95,166	578	112,710	399,985	597,152	54,200	1,164,047
2002	1,362	3,153	827	3,489	1,065	2,043	3,118	4,930	64,430	305	84,722	347,202	660,754	34,503	1,127,181
2003 <sup>1</sup>	1,790	3,751	553	3,084	559	2,226	7,823	6,149	49,600	247	75,782	336,934	711,420	40,962	1,165,098
2004 <sup>1</sup>	2,781	3,027	658	3,273	453	2,217	7,954	3,791	50,031	95	74,280	264,438	697,338	35,711	1,071,767
2005 <sup>1</sup>	1,222	1,589	628	4,748	482	1,963	10,426	4,020	42,038	272	67,388	321,780	663,704	55,545	1,108,417
2006 <sup>1</sup>	1,130	2,874	583	1,846	746	2,368	4,251	3,984	30,836	945	49,563	330,722	601,793	58,845	1,040,923
2007 <sup>1</sup>	1,067	1,133	1,380	5,530	630	1,528	12,571	4,031	47,178	486	75,534	334,952	593,133	53,088	1,056,707
2008 <sup>1</sup>	2,876	3,600	588	5,122	511	1,276	5,936	4,230	30,997	180	55,316	363,920	628,122	60,319	1,107,677
2009 <sup>1</sup>	1,952	3,106	1,083	3,093	330	2,341	4,868	2,831	27,919	249	47,772	356,270	622,578	45,659	1,072,279
2010 <sup>1</sup>	1,079	3,366	785	6,412	459	1,406	3,539	2,776	36,502	347	56,671	448,363	900,995	49,688	1,455,717
2011 <sup>1</sup>	2,555	2,224	1,096	4,792	599	1,556	3,792	6,302	23,458	182	46,556	416,006	905,281	41,627	1,409,470
<b>AVERAGES:</b>															
1999-2011	1,782	2,991	883	4,800	704	1,901	5,944	4,507	52,268	332	76,113	360,785	712,925	48,995	1,198,819

<sup>1</sup>Preliminary

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<sup>2</sup>Pacific Flyway total includes Alaska

## ESTIMATED REGULAR SEASON AMERICAN BLACK DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	0	0	0	0	0	0	0	0	0	0	0	101,997	57,682	0	159,679
2000	0	0	0	0	0	0	0	0	0	0	0	116,096	58,371	0	174,467
2001	0	0	0	0	0	0	0	0	0	0	0	95,889	31,816	0	127,705
2002	0	0	0	0	0	240	0	0	218	0	458	125,469	47,796	0	173,723
2003 <sup>1</sup>	0	0	0	0	0	0	0	134	0	0	134	95,108	33,150	0	128,392
2004 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	74,920	35,692	0	110,612
2005 <sup>1</sup>	0	0	0	0	0	115	0	0	0	0	115	93,406	36,365	0	129,886
2006 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	93,356	35,840	0	129,196
2007 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	98,705	38,692	0	137,397
2008 <sup>1</sup>	0	0	0	0	0	116	0	0	196	0	312	90,196	29,641	0	120,149
2009 <sup>1</sup>	0	0	0	0	0	0	0	0	220	0	220	81,287	30,373	0	111,880
2010 <sup>1</sup>	0	0	0	0	0	0	107	0	233	0	340	92,204	27,073	0	119,617
2011 <sup>1</sup>	0	0	0	0	0	156	0	0	0	0	156	66,203	21,992	0	88,351
<b>AVERAGES:</b>											133	94,218	37,268	0	131,620

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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## ESTIMATED REGULAR SEASON MOTTLED DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.	
1999	0	0	0	0	0	0	0	0	7,607	0	7,607	5,648	34,349	0	47,604	
2000	0	0	0	0	0	0	0	0	12,047	0	12,047	9,074	27,897	0	49,018	
2001	0	0	0	0	0	0	0	0	14,378	0	14,378	15,111	32,010	0	61,499	
2002	0	0	0	0	0	0	0	0	7,401	0	7,401	13,041	23,469	0	43,911	
2003 <sup>1</sup>	0	0	0	0	0	0	0	0	10,752	0	10,752	10,361	42,013	0	63,126	
2004 <sup>1</sup>	0	0	0	0	0	0	0	0	14,133	0	14,133	15,292	34,835	0	64,260	
2005 <sup>1</sup>	0	0	0	0	0	0	0	0	14,904	0	14,904	10,641	26,333	0	51,878	
2006 <sup>1</sup>	0	0	0	0	0	0	0	0	9,967	0	9,967	13,800	42,706	0	66,473	
2007 <sup>1</sup>	0	0	0	0	0	0	0	0	8,861	0	8,861	12,862	51,634	0	73,357	
2008 <sup>1</sup>	0	0	0	0	0	0	0	0	12,163	0	12,163	14,990	67,785	0	94,938	
2009 <sup>1</sup>	0	0	0	0	0	0	0	0	10,992	0	10,992	19,135	51,860	0	81,987	
2010 <sup>1</sup>	0	0	0	0	0	0	0	0	10,463	0	10,463	14,591	55,060	0	80,114	
2011 <sup>1</sup>	0	0	0	0	0	0	0	0	13,062	0	13,062	13,821	40,557	0	67,440	
<b>AVERAGES:</b>											0	11,287	12,951	40,808	0	65,047

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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## ESTIMATED REGULAR SEASON MEXICAN DUCK X MALLARD HYBRID HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.	
1999	0	0	0	0	211	0	0	0	4,876	0	5,087	0	0	485	5,572	
2000	0	0	0	0	1,474	0	0	0	6,286	0	7,760	0	0	1,852	9,612	
2001	0	0	0	0	809	0	0	0	6,504	0	7,313	0	0	752	8,065	
2002	0	0	0	0	2,721	0	0	0	1,088	0	3,809	0	0	1,375	5,184	
2003 <sup>1</sup>	0	0	0	0	2,450	0	0	0	3,469	0	5,919	0	0	895	6,814	
2004 <sup>1</sup>	0	0	0	0	1,390	0	0	0	283	0	1,673	0	0	279	1,952	
2005 <sup>1</sup>	0	0	0	0	297	0	0	0	764	0	1,061	0	0	878	1,939	
2006 <sup>1</sup>	0	0	0	0	693	0	0	0	0	0	693	0	0	400	1,093	
2007 <sup>1</sup>	0	0	0	0	286	0	0	0	718	0	1,004	0	0	853	1,857	
2008 <sup>1</sup>	0	0	0	0	1,096	0	0	0	0	0	1,096	0	0	918	2,014	
2009 <sup>1</sup>	139	0	0	0	566	0	0	0	660	0	1,365	0	0	472	1,837	
2010 <sup>1</sup>	0	0	0	0	389	0	0	0	930	0	1,319	0	0	877	2,196	
2011 <sup>1</sup>	0	0	0	0	557	0	0	0	267	0	824	0	0	261	1,085	
<b>AVERAGES:</b>											0	2,994	0	0	792	3,786

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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**ESTIMATED BLUE-WINGED TEAL HARVEST DURING SPECIAL SEPTEMBER SEASONS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL <sup>2</sup> FLYWAY	MISS <sup>2</sup> FLYWAY	PAC <sup>3</sup> FLYWAY	U.S.
1999	2,360	28,022		0	1,690		7,852		130,094		170,018	24,787	437,537	0	632,342
2000	1,610	27,724		10,308	3,244		9,597		196,688		249,171	21,376	430,937	0	701,484
2001	1,132	10,741		10,423	1,617		10,183		218,060		252,156	19,600	265,628	0	537,384
2002	470	8,723		4,775	1,065		2,645		62,035		79,713	13,123	112,946	0	205,782
2003 <sup>1</sup>	3,581	21,393		13,108	1,891		13,792		99,894		153,659	10,920	296,755	0	461,334
2004 <sup>1</sup>	4,287	19,173		6,060	517		2,767		63,033		95,837	6,688	106,309	0	208,834
2005 <sup>1</sup>	3,896	10,387		5,087	260		7,485		89,044		116,159	15,357	100,272	0	231,788
2006 <sup>1</sup>	2,340	23,664		11,167	2,079		10,971		133,622		183,843	17,845	265,213	0	466,901
2007 <sup>1</sup>	6,047	25,582		27,010	3,321		22,209		144,405		228,574	21,982	303,920	0	554,476
2008 <sup>1</sup>	4,657	15,120		20,037	256		8,586		59,247		107,903	5,370	195,150	0	308,423
2009 <sup>1</sup>	2,092	15,165		11,513	755		8,006		130,142		167,673	17,409	244,657	0	429,739
2010 <sup>1</sup>	2,518	16,829		12,112	565		7,507		113,926		153,457	27,003	291,509	0	471,969
2011 <sup>1</sup>	5,718	22,562		17,892	2,141		5,753		159,406		213,472	41,521	378,119	0	633,112
<b>AVERAGES:</b>															
1999-2011	3,131	18,853		11,499	1,492		9,027		123,046		167,049	18,691	263,766		449,505

<sup>1</sup> Preliminary

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<sup>2</sup> Includes special seasons in FL, KY, and TN initiated in 1981

<sup>3</sup> Pacific Flyway total includes Alaska

**ESTIMATED REGULAR SEASON BLUE-WINGED TEAL HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	4,559	6,936	1,663	14,039	1,091	23,808	682	22,167	30,816	1,480	107,241	57,089	298,936	58,968	522,234
2000	6,580	2,385	1,371	8,247	3,612	23,006	1,545	13,254	64,952	1,300	126,252	56,819	279,651	38,436	501,158
2001	2,758	1,074	1,281	11,668	1,155	33,981	429	24,577	46,556	241	123,720	52,762	362,642	42,831	581,955
2002	4,275	3,468	827	11,937	788	42,413	473	21,226	45,928	2,221	133,556	48,212	326,812	45,703	554,283
2003 <sup>1</sup>	3,837	4,258	704	7,380	473	37,097	206	16,844	37,634	1,036	109,469	34,952	303,138	57,426	504,985
2004 <sup>1</sup>	7,532	6,812	658	4,606	33	25,205	518	14,289	71,231	1,716	132,600	66,356	259,179	71,981	530,116
2005 <sup>1</sup>	5,499	1,588	1,255	14,243	445	34,758	1,470	14,770	44,712	816	119,556	61,790	213,807	76,592	471,745
2006 <sup>1</sup>	5,971	1,183	1,582	9,045	906	18,199	275	11,838	50,459	1,080	100,538	52,745	248,663	72,118	474,064
2007 <sup>1</sup>	8,803	1,296	1,466	13,785	687	26,097	1,047	9,951	53,643	1,337	118,112	67,670	322,800	58,092	566,674
2008 <sup>1</sup>	4,383	3,840	588	9,039	255	12,414	3,604	12,992	44,534	1,258	92,907	67,139	322,787	52,664	535,497
2009 <sup>1</sup>	1,255	3,654	433	4,983	118	21,404	757	17,323	78,700	697	129,324	97,070	487,937	46,568	760,899
2010 <sup>1</sup>	3,418	3,366	883	10,259	142	25,205	107	14,839	47,664	1,735	107,618	92,345	341,939	58,794	600,696
2011 <sup>1</sup>	3,649	4,131	2,055	10,862	556	53,846	1,569	28,501	39,719	1,031	145,919	92,915	326,528	52,675	618,037
<b>AVERAGES:</b>															
1999-2011	4,809	3,384	1,136	10,007	789	29,033	976	17,121	50,504	1,227	118,986	65,220	314,986	56,373	555,565

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

**ESTIMATED ALL-SEASON BLUE-WINGED TEAL HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	6,919	34,958	1,663	14,039	2,781	23,808	8,534	22,167	160,910	1,480	277,259	81,876	736,473	58,968	1,154,576
2000	8,190	30,109	1,371	18,555	6,856	23,006	11,142	13,254	261,640	1,300	375,423	78,195	710,588	38,436	1,202,642
2001	3,890	11,815	1,281	22,091	2,772	33,981	10,612	24,577	264,616	241	375,876	72,362	628,270	42,831	1,119,339
2002	4,745	12,191	827	16,712	1,853	42,413	3,118	21,226	107,963	2,221	213,269	61,335	439,758	45,703	760,065
2003 <sup>1</sup>	7,418	25,651	704	20,488	2,364	37,097	13,998	16,844	137,528	1,036	263,128	45,872	599,893	57,426	966,319
2004 <sup>1</sup>	11,819	25,985	658	10,666	550	25,205	3,285	14,289	134,264	1,716	228,437	73,044	365,488	71,981	738,950
2005 <sup>1</sup>	9,395	11,975	1,255	19,330	705	34,758	8,955	14,770	133,756	816	235,715	77,147	314,079	76,592	703,533
2006 <sup>1</sup>	8,311	24,847	1,582	20,212	2,985	18,199	11,246	11,838	184,081	1,080	284,381	70,590	513,876	72,118	940,965
2007 <sup>1</sup>	14,850	26,878	1,466	40,795	4,008	26,097	23,256	9,951	198,048	1,337	346,686	89,652	626,720	58,092	1,121,150
2008 <sup>1</sup>	9,040	18,960	588	29,076	511	12,414	12,190	12,992	103,781	1,258	200,810	72,509	517,937	52,664	843,920
2009 <sup>1</sup>	3,347	18,819	433	16,496	873	21,404	8,763	17,323	208,842	697	296,997	114,479	732,594	46,568	1,190,638
2010 <sup>1</sup>	5,936	20,195	883	22,371	707	25,205	7,614	14,839	161,590	1,735	261,075	119,348	633,448	58,794	1,072,665
2011 <sup>1</sup>	9,367	26,693	2,055	28,754	2,697	53,846	7,322	28,501	199,125	1,031	359,391	134,436	704,647	52,675	1,251,149
<b>AVERAGES:</b>															
1999-2011	7,941	22,237	1,136	21,507	2,282	29,033	10,003	17,121	173,550	1,227	286,034	83,911	578,752	56,373	1,005,070

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

**ESTIMATED GREEN-WINGED TEAL HARVEST DURING SPECIAL SEPTEMBER SEASONS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL <sup>2</sup> FLYWAY	MISS <sup>2</sup> FLYWAY	PAC <sup>3</sup> FLYWAY	U.S.
1999	244	3,052		0	282		2,503		6,436		12,517	8,925	18,710	0	40,152
2000	770	4,621		1,675	958		4,192		20,428		32,644	7,684	22,166	0	62,494
2001	1,273	1,790		1,089	1,386		1,715		20,882		28,135	7,649	12,036	0	47,820
2002	470	3,783		1,653	670		1,039		8,924		16,539	2,080	5,719	0	24,338
2003 <sup>1</sup>	1,791	9,024		3,635	1,032		3,500		12,660		31,642	3,186	27,174	0	62,002
2004 <sup>1</sup>	695	2,901		2,061	194		173		5,088		11,112	2,331	13,241	0	26,684
2005 <sup>1</sup>	1,375	2,200		1,243	148		668		8,025		13,659	2,420	9,260	0	25,339
2006 <sup>1</sup>	1,130	4,733		2,030	1,013		3,429		17,443		29,778	4,901	27,585	0	62,264
2007 <sup>1</sup>	2,757	4,534		4,809	401		2,514		14,369		29,384	1,344	20,595	0	51,323
2008 <sup>1</sup>	1,370	7,200		10,244	146		2,120		7,259		28,339	3,867	11,493	0	43,699
2009 <sup>1</sup>	418	2,375		1,890	283		2,055		13,190		20,211	3,174	7,775	0	31,160
2010 <sup>1</sup>	90	1,812		2,565	212		965		3,255		8,899	2,257	7,285	0	18,441
2011 <sup>1</sup>	852	1,748		1,438	86		523		13,328		17,975	2,530	14,908	0	35,413
<b>AVERAGES:</b>															
1999-2011	1,018	3,829		2,641	524		1,954		11,637		21,603	4,027	15,227		40,856

<sup>1</sup> Preliminary

<sup>2</sup> Includes special seasons in FL, KY, and TN initiated in 1981

<sup>3</sup> Pacific Flyway total includes Alaska

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**ESTIMATED REGULAR SEASON GREEN-WINGED TEAL HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL <sup>2</sup> FLYWAY	MISS <sup>2</sup> FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	6,919	21,918	2,743	29,776	3,908	19,992	34,252	24,067	193,873	1,567	339,015	232,627	889,529	529,706	1,990,877
2000	9,450	27,872	1,028	19,973	5,308	23,224	15,885	24,983	187,784	2,437	317,944	183,099	669,335	418,325	1,588,703
2001	8,062	20,049	1,442	18,669	5,660	13,399	12,863	22,477	195,467	3,374	301,462	141,445	576,040	334,806	1,353,753
2002	9,207	31,423	2,826	31,496	1,932	33,642	24,941	26,019	121,677	3,136	286,299	156,480	530,750	347,474	1,321,003
2003 <sup>1</sup>	16,114	24,536	1,106	22,140	4,127	26,116	18,630	24,063	113,248	3,649	253,729	133,969	671,389	368,625	1,427,712
2004 <sup>1</sup>	9,038	29,012	2,021	20,726	2,295	31,389	25,419	17,982	119,565	4,766	262,213	112,638	484,778	487,240	1,346,869
2005 <sup>1</sup>	6,416	13,197	1,654	16,165	5,529	21,594	29,139	14,396	233,501	1,741	343,332	118,252	504,590	508,967	1,475,141
2006 <sup>1</sup>	7,665	11,156	1,748	18,551	11,942	18,199	32,091	19,919	128,015	2,768	252,054	149,711	632,043	562,655	1,596,463
2007 <sup>1</sup>	9,159	22,182	2,328	26,448	5,840	18,077	53,427	14,234	187,990	1,823	341,508	155,693	771,587	631,083	1,899,871
2008 <sup>1</sup>	9,176	22,560	2,157	33,144	3,323	16,938	26,819	12,992	163,616	1,834	292,559	145,041	841,356	674,810	1,953,766
2009 <sup>1</sup>	5,578	23,569	4,225	16,153	1,983	20,623	24,558	12,568	132,120	2,539	243,916	132,460	747,458	539,080	1,662,914
2010 <sup>1</sup>	4,137	15,276	785	13,964	2,156	15,036	28,205	12,277	158,567	2,291	252,694	146,225	1,045,499	549,187	1,993,605
2011 <sup>1</sup>	8,029	18,113	959	25,719	1,198	19,453	39,487	17,186	177,800	1,698	309,642	109,572	986,994	507,811	1,914,019
<b>AVERAGES:</b>															
1999-2011	8,381	21,605	1,925	22,533	4,246	21,360	28,132	18,705	162,556	2,586	292,028	147,478	719,334	496,905	1,655,746

<sup>1</sup> Preliminary

<sup>2</sup> Pacific Flyway total includes Alaska

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**ESTIMATED ALL-SEASON GREEN-WINGED TEAL HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL <sup>2</sup> FLYWAY	MISS <sup>2</sup> FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	7,163	24,970	2,743	29,776	4,190	19,992	36,755	24,067	200,309	1,567	351,532	241,552	908,239	529,706	2,031,029
2000	10,220	32,493	1,028	21,648	6,266	23,224	20,077	24,983	208,212	2,437	350,588	190,783	691,501	418,325	1,651,197
2001	9,335	21,839	1,442	19,758	7,046	13,399	14,578	22,477	216,349	3,374	329,597	149,094	588,076	334,806	1,401,573
2002	9,677	35,206	2,826	33,149	2,602	33,642	25,980	26,019	130,601	3,136	302,838	158,560	536,469	347,474	1,345,341
2003 <sup>1</sup>	17,905	33,560	1,106	25,775	5,159	26,116	22,130	24,063	125,908	3,649	285,371	137,155	698,563	368,625	1,489,714
2004 <sup>1</sup>	9,733	31,913	2,021	22,787	2,489	31,389	25,592	17,982	124,653	4,766	273,325	114,969	498,019	487,240	1,373,553
2005 <sup>1</sup>	7,791	15,397	1,654	17,408	5,677	21,594	29,807	14,396	241,526	1,741	356,991	120,672	513,850	508,967	1,500,480
2006 <sup>1</sup>	8,795	15,889	1,748	20,581	12,955	18,199	35,520	19,919	145,458	2,768	281,832	154,612	659,628	562,655	1,658,727
2007 <sup>1</sup>	11,916	26,716	2,328	31,257	6,241	18,077	55,941	14,234	202,359	1,823	370,892	157,037	792,182	631,083	1,951,194
2008 <sup>1</sup>	10,546	29,760	2,157	43,388	3,469	16,938	28,939	12,992	170,875	1,834	320,898	148,908	852,849	674,810	1,997,465
2009 <sup>1</sup>	5,996	25,944	4,225	18,043	2,266	20,623	26,613	12,568	145,310	2,539	264,127	135,634	755,233	539,080	1,694,074
2010 <sup>1</sup>	4,227	17,088	785	16,529	2,368	15,036	29,170	12,277	161,822	2,291	261,593	148,482	1,052,784	549,187	2,012,046
2011 <sup>1</sup>	8,881	19,861	959	27,157	1,284	19,453	40,010	17,186	191,128	1,698	327,617	112,102	1,001,902	507,811	1,949,432
<b>AVERAGES:</b>															
1999-2011	9,399	25,434	1,925	25,174	4,770	21,360	30,086	18,705	174,193	2,586	313,631	151,505	734,561	496,905	1,696,602

<sup>1</sup> Preliminary

<sup>2</sup> Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON BLACK-BELLIED WHISTLING DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	0	0	0	0	0	0	0	0	1,170	0	1,170	0	0	0	1,170
2000	0	0	0	0	0	0	0	0	2,881	0	2,881	252	0	370	3,503
2001	0	0	0	0	0	0	0	0	4,793	0	4,793	267	568	0	5,628
2002	0	0	0	0	0	0	0	0	5,442	0	5,442	1,871	0	0	7,313
2003 <sup>1</sup>	0	0	0	0	0	0	0	0	7,284	0	7,284	714	636	0	8,634
2004 <sup>1</sup>	0	0	0	0	0	0	0	0	11,872	0	11,872	1,916	1,185	0	14,973
2005 <sup>1</sup>	0	0	0	0	0	0	0	0	3,057	0	3,057	1,056	4,285	0	8,398
2006 <sup>1</sup>	0	0	0	0	0	0	0	0	2,492	0	2,492	1,394	6,225	0	10,111
2007 <sup>1</sup>	0	0	0	0	0	0	0	0	8,142	0	8,142	3,740	3,531	0	15,413
2008 <sup>1</sup>	0	0	0	0	0	0	0	0	1,373	0	1,373	1,477	5,879	0	8,729
2009 <sup>1</sup>	0	0	0	0	0	0	0	0	1,759	0	1,759	8,112	15,231	0	25,102
2010 <sup>1</sup>	0	0	0	0	0	0	0	0	6,975	0	6,975	6,495	4,015	58	17,543
2011 <sup>1</sup>	0	0	0	0	0	0	0	0	1,066	0	1,066	5,626	3,625	0	10,317
<b>AVERAGES:</b>															
1999-2011	0	0	0	0	0	0	0	0	4,485	0	4,485	2,532	3,475	33	10,526

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON FULVOUS TREE DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	0	0	0	0	0	0	0	0	0	0	0	194	327	0	521
2000	0	0	0	0	0	0	0	0	0	0	0	252	0	0	252
2001	0	0	0	0	0	0	0	0	0	0	0	267	946	0	1,213
2002	0	0	0	0	0	0	0	0	0	0	0	125	140	0	265
2003 <sup>1</sup>	0	0	0	0	0	0	0	0	520	0	520	0	0	0	520
2004 <sup>1</sup>	0	0	0	0	0	0	0	0	283	0	283	776	1,461	0	2,520
2005 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	411	0	0	411
2006 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	797	732	0	1,529
2007 <sup>1</sup>	0	0	0	0	0	0	0	0	718	0	718	612	1,926	0	3,256
2008 <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	316	735	0	1,051
2009 <sup>1</sup>	0	0	0	0	0	0	0	0	660	0	660	1,642	2,948	0	5,250
2010 <sup>1</sup>	0	0	0	0	0	0	0	0	465	0	465	1,274	0	0	1,739
2011 <sup>1</sup>	0	0	0	0	0	0	0	0	267	0	267	1,468	0	0	1,735
<b>AVERAGES:</b>															
1999-2011	0	0	0	0	0	0	0	0	224	0	224	626	709	0	1,559

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON REDHEAD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	1,058	3,468	582	2,314	70	18,719	2,731	7,125	62,999	871	99,937	3,814	61,723	16,831	182,305
2000	840	2,832	600	2,448	516	9,922	3,530	4,926	60,237	894	86,745	7,457	48,608	14,982	157,792
2001	424	2,864	0	2,022	809	13,951	2,037	7,287	63,672	145	93,211	7,308	52,722	11,704	164,945
2002	611	2,838	207	1,837	118	5,767	2,551	959	14,148	523	29,559	2,324	27,564	10,917	70,364
2003 <sup>1</sup>	1,151	1,217	302	2,203	344	12,168	926	3,208	12,487	395	34,401	5,570	34,542	22,922	97,435
2004 <sup>1</sup>	463	2,018	658	970	97	7,935	2,248	2,236	18,373	95	35,093	5,196	35,334	22,218	97,841
2005 <sup>1</sup>	1,528	3,788	399	3,391	408	20,785	2,005	3,926	40,127	326	76,683	9,291	62,051	20,881	168,906
2006 <sup>1</sup>	2,017	4,226	1,082	3,784	426	20,069	2,469	9,675	35,508	68	79,324	1,984	69,500	26,349	177,157
2007 <sup>1</sup>	2,846	1,619	690	2,404	344	21,387	3,562	9,447	42,148	365	84,812	7,235	63,027	18,957	174,031
2008 <sup>1</sup>	2,191	6,784	294	1,205	73	9,629	2,438	4,230	24,523	72	51,439	7,359	43,108	17,776	119,682
2009 <sup>1</sup>	1,116	2,923	1,192	2,578	189	32,663	3,029	7,020	29,018	249	79,977	12,129	59,860	17,850	169,816
2010 <sup>1</sup>	450	4,013	1,373	2,137	565	25,854	5,148	5,872	44,176	208	89,796	24,127	109,003	21,146	244,072
2011 <sup>1</sup>	487	2,542	1,233	3,355	257	24,277	6,930	4,010	79,703	182	122,976	9,893	155,227	33,322	321,418
<b>AVERAGES:</b>											74,150	7,976	63,251	19,681	165,059

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

### ESTIMATES OF REGULAR SEASON CANVASBACK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	81	832	582	926	106	7,633	1,366	1,742	20,284	87	33,639	5,566	40,510	20,127	99,842
2000	140	149	171	0	74	4,906	1,544	1,642	18,333	0	26,959	16,474	49,183	20,029	112,645
2001	141	537	160	311	0	4,973	214	371	7,189	96	13,992	1,578	11,578	9,482	36,630
2002 <sup>1</sup>	0	0	0	0	0	120	0	0	1,088	0	1,208	0	574	1,187	2,969
2003 <sup>2</sup>	128	101	151	551	43	2,671	823	936	2,601	0	8,005	4,738	9,821	11,381	33,945
2004 <sup>2</sup>	0	252	0	0	65	4,784	346	583	2,827	0	8,857	9,772	10,824	15,026	44,479
2005 <sup>2</sup>	229	489	114	452	37	7,621	1,470	561	6,497	0	17,470	4,433	32,786	9,729	64,418
2006 <sup>2</sup>	0	338	166	831	160	8,227	274	2,049	5,918	68	18,031	1,228	45,640	26,987	91,886
2007 <sup>2</sup>	267	324	0	240	229	6,111	1,467	630	5,987	0	15,255	6,988	56,432	46,533	125,208
2008 <sup>2,3</sup>	822	480	98	452	37	4,641	1,908	1,309	6,082	36	15,865	68	1,234	1,007	18,174
2009 <sup>2</sup>	279	731	217	0	71	8,361	1,947	679	4,617	348	17,250	7,389	27,831	17,923	70,393
2010 <sup>2</sup>	180	388	589	570	35	7,248	1,716	2,242	11,858	0	24,826	22,989	72,703	25,168	145,686
2011 <sup>2</sup>	730	2,860	822	1,597	214	8,092	4,315	1,575	21,592	243	42,040	5,349	68,358	25,113	140,860
<b>AVERAGES:</b>											18,723	6,659	32,883	17,669	75,933

<sup>1</sup> Season was closed in the U.S. (except for AK)

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<sup>2</sup> Preliminary

<sup>3</sup> Season was closed in the U.S. (except for AK and the Central Flyway)

<sup>4</sup> Pacific Flyway total includes Alaska

### ESTIMATED REGULAR SEASON RING-NECKED DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	733	4,717	0	2,006	669	6,724	12,176	7,442	58,708	871	94,046	147,511	264,504	47,040	553,101
2000	980	1,341	171	1,675	663	7,523	8,273	3,871	84,332	81	108,910	95,470	257,504	34,267	496,151
2001	849	2,685	721	2,334	693	6,769	3,323	4,199	57,853	48	79,474	89,486	230,667	38,507	438,134
2002	752	5,044	482	3,030	789	5,887	8,786	4,108	44,187	436	73,501	96,626	239,065	35,960	445,152
2003 <sup>1</sup>	1,023	4,765	101	2,533	860	3,413	7,617	2,139	39,715	197	62,363	112,806	230,202	36,326	441,697
2004 <sup>1</sup>	463	4,793	235	1,333	615	8,168	11,413	2,138	37,311	381	66,850	74,349	233,979	58,350	433,528
2005 <sup>1</sup>	611	2,688	513	2,487	631	10,277	14,168	2,057	42,802	109	76,343	109,021	240,090	49,729	475,183
2006 <sup>1</sup>	2,017	8,113	83	2,030	533	12,465	15,360	5,236	40,803	473	87,113	144,491	353,705	71,264	656,573
2007 <sup>1</sup>	1,423	4,048	517	1,202	401	4,965	12,361	3,401	47,417	61	75,796	120,756	241,239	65,642	503,433
2008 <sup>1</sup>	685	7,680	588	1,055	511	6,497	12,084	4,532	33,351	108	67,091	131,717	251,356	50,427	500,591
2009 <sup>1</sup>	1,255	6,212	325	1,031	378	5,685	8,979	3,397	41,329	348	68,939	116,445	186,243	38,024	409,651
2010 <sup>1</sup>	540	4,660	98	712	318	10,493	11,046	6,085	33,015	208	67,175	94,349	268,411	61,147	491,082
2011 <sup>1</sup>	973	6,197	137	2,396	257	5,291	18,436	3,151	49,315	364	86,517	152,132	259,457	46,242	544,348
<b>AVERAGES:</b>											78,009	114,243	250,494	48,687	491,433

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

### ESTIMATED REGULAR SEASON GREATER SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	0	139	0	0	0	182	569	158	1,755	0	2,803	8,305	9,272	19,358	39,738
2000	70	0	86	129	0	218	110	0	1,833	0	2,446	12,850	19,085	19,384	53,765
2001	0	179	0	0	116	138	0	0	1,369	0	1,802	8,505	8,603	15,736	34,646
2002	47	210	69	735	0	120	189	411	1,959	0	3,740	17,639	29,228	19,989	70,596
2003 <sup>1</sup>	0	0	0	110	43	0	103	134	867	0	1,257	17,344	13,032	16,122	47,755
2004 <sup>1</sup>	0	126	0	0	0	350	346	583	2,261	0	3,666	16,837	28,056	22,958	71,517
2005 <sup>1</sup>	0	0	0	113	0	462	134	280	1,529	0	2,518	18,237	24,812	12,447	58,014
2006 <sup>1</sup>	161	169	0	92	0	249	137	0	1,869	0	2,677	10,523	21,454	13,125	47,779
2007 <sup>1</sup>	89	0	0	0	115	0	1,676	126	958	0	2,964	13,154	21,964	32,752	70,834
2008 <sup>1</sup>	0	240	0	0	0	348	106	0	1,962	0	2,656	10,646	24,649	11,514	49,465
2009 <sup>1</sup>	0	183	0	0	0	223	0	0	1,099	0	1,505	12,794	24,567	16,273	55,139
2010 <sup>1</sup>	0	0	98	0	0	108	322	214	930	0	1,672	23,535	23,692	20,916	69,815
2011 <sup>1</sup>	0	0	0	0	0	0	523	0	2,932	0	3,455	6,265	33,680	16,024	59,424
<b>AVERAGES:</b>											2,551	13,587	21,700	18,200	56,037
1 Preliminary															K.L. Kruse FILE: S:\ICF_D\projects\Monitoring\harvest data\DATABASE\HIP\DIVERHARV\HIP. 07/11/12
2 Pacific Flyway total includes Alaska															

### ESTIMATED REGULAR SEASON LESSER SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.									
1999	163	277	582	1,389	0	18,174	455	3,483	12,873	348	37,744	64,263	80,808	29,261	212,076									
2000	770	149	771	773	295	23,006	882	4,223	52,380	81	83,330	32,331	184,008	31,353	331,022									
2001	424	895	80	933	231	23,483	429	3,582	41,764	96	71,917	111,237	170,824	30,221	384,199									
2002	1,550	1,997	758	3,489	315	25,472	4,062	4,519	44,840	436	87,438	85,457	182,132	32,866	387,893									
2003 <sup>1</sup>	895	913	201	2,644	129	17,065	1,647	3,208	17,863	444	45,009	60,939	145,607	39,032	290,587									
2004 <sup>1</sup>	811	1,766	188	848	0	20,187	1,383	8,068	33,071	477	66,799	54,891	108,351	52,347	282,388									
2005 <sup>1</sup>	382	244	114	339	37	21,709	2,406	4,207	24,840	163	54,441	63,698	111,357	29,471	258,967									
2006 <sup>1</sup>	484	845	83	831	267	20,568	2,057	7,057	18,688	68	50,948	46,619	101,219	34,723	233,509									
2007 <sup>1</sup>	178	648	345	561	286	16,168	2,514	4,157	15,806	0	40,663	46,594	84,791	52,006	224,054									
2008 <sup>1</sup>	0	1,200	294	301	110	10,209	848	4,834	11,182	36	29,014	25,791	97,340	27,414	179,559									
2009 <sup>1</sup>	279	731	325	344	71	26,197	433	4,189	11,212	249	44,030	35,908	111,522	30,608	222,068									
2010 <sup>1</sup>	720	1,424	294	142	35	18,390	858	4,270	13,718	0	39,851	67,005	157,275	23,776	287,907									
2011 <sup>1</sup>	122	1,271	822	639	0	12,294	1,700	3,437	23,191	61	43,537	46,195	114,903	22,791	227,426									
<b>AVERAGES:</b>											521	951	374	1,018	19,456	1,513	4,556	24,725	189	53,440	56,994	126,934	33,528	270,897
1 Preliminary																K.L. Kruse FILE: S:\ICF_D\projects\Monitoring\harvest data\DATABASE\HIP\DIVERHARV\HIP. 07/11/12								
2 Pacific Flyway total includes Alaska																								

### ESTIMATED REGULAR SEASON TOTAL (LESSER & GREATER) SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.										
1999	163	416	582	1,389	0	18,356	1,024	3,641	14,628	348	40,547	72,568	90,080	48,619	251,814										
2000	840	149	857	902	295	23,224	992	4,223	54,213	81	85,776	45,181	203,093	50,737	384,787										
2001	424	1,074	80	933	347	23,621	429	3,582	43,133	96	73,719	119,742	179,427	45,957	418,845										
2002	1,597	2,207	827	4,224	315	25,592	4,251	4,930	46,799	436	91,178	103,096	211,360	52,855	458,489										
2003 <sup>1</sup>	895	913	201	2,754	172	17,065	1,750	3,342	18,730	444	46,266	78,283	158,639	55,154	338,342										
2004 <sup>1</sup>	811	1,892	188	848	0	20,537	1,729	8,651	35,332	477	70,465	71,728	136,407	75,305	353,905										
2005 <sup>1</sup>	382	244	114	452	37	22,171	2,540	4,487	26,369	163	56,959	81,935	136,169	41,918	316,981										
2006 <sup>1</sup>	645	1,014	83	923	267	20,817	2,194	7,057	20,557	68	53,625	57,142	122,673	47,848	281,288										
2007 <sup>1</sup>	267	648	345	561	401	16,168	4,190	4,283	16,764	0	43,627	59,748	106,755	84,758	294,888										
2008 <sup>1</sup>	0	1,440	294	301	110	10,557	954	4,834	13,144	36	31,670	36,437	121,989	38,928	229,024										
2009 <sup>1</sup>	279	914	325	344	71	26,420	433	4,189	12,311	249	45,535	48,702	136,089	46,881	277,207										
2010 <sup>1</sup>	720	1,424	392	142	35	18,498	1,180	4,484	14,648	0	41,523	90,540	180,967	44,692	357,722										
2011 <sup>1</sup>	122	1,271	822	639	0	12,294	2,223	3,437	26,123	61	46,992	52,460	148,583	38,815	286,850										
<b>AVERAGES:</b>											550	1,047	393	1,109	158	19,640	1,838	4,703	26,365	189	55,991	70,582	148,633	51,728	326,934
1 Preliminary																K.L. Kruse FILE: S:\ICF_D\projects\Monitoring\harvest data\DATABASE\HIP\DIVERHARV\HIP. 07/11/12									
2 Pacific Flyway total includes Alaska																									

### ESTIMATED REGULAR SEASON COMMON GOLDENEYE HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	163	694	166	154	211	545	0	158	780	87	2,958	9,690	22,587	15,413	50,648
2000	2,310	2,236	685	644	74	0	0	352	1,048	731	8,080	11,481	18,055	19,102	56,718
2001	990	895	881	156	0	691	214	247	1,369	675	6,118	6,014	23,406	13,081	48,619
2002	1,644	525	207	826	315	601	472	137	1,306	2,308	8,341	12,156	35,658	32,778	88,933
2003 <sup>1</sup>	3,581	913	503	1,101	129	890	721	1,471	694	1,677	11,680	13,439	28,299	41,931	95,349
2004 <sup>1</sup>	1,506	1,514	376	364	226	467	1,902	583	283	667	7,888	13,036	30,290	25,143	76,357
2005 <sup>1</sup>	535	122	399	226	0	115	535	467	382	544	3,325	18,760	23,420	25,941	71,446
2006 <sup>1</sup>	1,452	507	583	369	586	748	1,097	569	934	945	7,790	12,542	19,622	36,466	76,420
2007 <sup>1</sup>	445	486	690	1,362	115	255	1,467	630	1,916	729	8,095	14,739	26,478	29,099	78,411
2008 <sup>1</sup>	274	480	392	904	0	0	742	101	1,373	719	4,985	15,762	29,540	26,776	77,063
2009 <sup>1</sup>	279	1,096	433	172	24	780	1,082	226	0	1,344	5,436	12,747	30,017	36,141	84,341
2010 <sup>1</sup>	90	3,884	294	0	35	325	1,180	320	2,325	625	9,078	14,424	33,578	20,636	77,716
2011 <sup>1</sup>	1,217	318	1,096	1,438	214	311	654	143	2,133	1,698	9,222	12,463	39,306	30,741	91,732
<b>AVERAGES:</b>															
1999-2011	1,114	1,052	516	594	148	441	774	416	1,119	981	7,154	12,866	27,712	27,173	74,904

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

### ESTIMATED REGULAR SEASON RUDDY DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	163	277	0	309	0	1,272	228	1,583	3,316	261	7,409	29,188	16,403	11,607	64,607
2000	210	447	0	258	0	545	221	821	3,405	0	5,907	11,029	6,418	2,863	26,217
2001	71	0	0	311	0	1,243	214	865	1,369	0	4,073	7,206	4,609	5,452	21,340
2002	282	0	69	184	0	601	94	137	653	0	2,020	7,288	4,479	2,879	16,666
2003 <sup>1</sup>	0	406	0	110	0	742	0	267	173	49	1,747	2,474	10,943	5,632	20,796
2004 <sup>1</sup>	0	126	0	121	129	117	173	778	565	0	2,009	4,307	5,227	6,428	17,971
2005 <sup>1</sup>	153	122	0	0	0	115	267	467	1,146	218	2,488	11,709	4,235	5,742	24,174
2006 <sup>1</sup>	81	0	0	369	426	997	0	797	2,180	68	4,918	7,026	20,250	7,415	39,609
2007 <sup>1</sup>	0	0	172	160	0	1,528	629	630	718	0	3,837	8,679	10,891	6,130	29,537
2008 <sup>1</sup>	0	0	0	151	37	348	106	1,611	196	36	2,485	11,860	10,970	4,880	30,195
2009 <sup>1</sup>	279	0	0	0	0	3,233	108	453	2,638	0	6,711	9,275	12,243	6,536	34,765
2010 <sup>1</sup>	450	0	392	0	0	3,137	0	961	3,488	0	8,428	21,427	8,196	17,048	55,099
2011 <sup>1</sup>	487	1,589	0	160	86	2,179	0	3,151	2,399	0	10,051	5,531	21,717	9,449	46,748
<b>AVERAGES:</b>															
1999-2011	167	228	49	164	52	1,235	157	963	1,711	49	4,776	10,538	10,506	7,082	32,902

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

### ESTIMATED REGULAR SEASON HOODED MERGANSER HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	0	694	0	154	0	727	1,934	317	8,972	0	12,798	29,269	46,577	4,807	93,451
2000	140	447	0	129	0	436	1,103	352	5,762	81	8,450	35,960	44,927	4,984	94,321
2001	141	716	160	778	116	276	858	247	6,162	0	9,454	28,108	43,506	4,602	85,670
2002	188	1,261	0	459	39	601	1,039	0	6,312	87	9,986	31,791	58,936	2,832	103,545
2003 <sup>1</sup>	0	913	0	330	86	1,039	618	802	3,295	49	7,132	29,181	51,706	5,488	93,507
2004 <sup>1</sup>	116	1,388	94	485	33	817	865	194	1,979	95	6,066	25,692	47,469	3,998	83,225
2005 <sup>1</sup>	76	367	0	0	0	693	1,069	654	5,732	0	8,591	34,037	30,454	4,235	77,317
2006 <sup>1</sup>	161	338	0	92	53	249	1,509	114	2,803	0	5,319	37,182	37,241	2,857	82,599
2007 <sup>1</sup>	0	810	0	641	115	255	1,676	630	3,353	0	7,480	38,135	38,686	6,930	91,231
2008 <sup>1</sup>	0	1,440	196	452	0	580	2,438	302	3,531	0	8,939	38,212	38,037	4,390	89,578
2009 <sup>1</sup>	0	914	108	1,375	47	557	1,406	226	2,198	0	6,831	42,000	41,645	5,764	96,240
2010 <sup>1</sup>	90	777	0	0	177	865	1,930	107	3,488	0	7,434	36,148	45,988	6,317	95,887
2011 <sup>1</sup>	122	1,589	0	639	0	622	2,877	716	6,931	61	13,557	34,991	53,766	8,500	110,814
<b>AVERAGES:</b>															
1999-2011	80	896	43	426	51	594	1,486	359	4,655	29	8,618	33,900	44,534	5,054	92,107

<sup>1</sup> Preliminary

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<sup>2</sup> Pacific Flyway total includes Alaska

**ESTIMATED REGULAR SEASON ALL-DUCK HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S.
1999	68,129	203,226	44,891	189,301	21,580	538,499	266,047	302,900	1,232,475	28,471	2,895,519	1,828,974	7,599,866	3,127,306	15,451,665
2000	91,070	195,555	40,520	207,716	52,782	427,300	219,410	218,399	1,550,722	32,412	3,035,886	1,791,877	7,610,590	2,711,332	15,149,685
2001	118,597	168,267	37,723	206,289	51,983	491,201	153,503	294,307	1,449,058	36,390	3,007,318	1,694,218	6,410,705	2,392,193	13,504,434
2002	82,306	202,093	34,532	215,972	40,100	514,598	228,625	251,699	907,241	41,288	2,518,454	1,760,084	5,681,073	2,210,500	12,170,111
2003 <sup>1</sup>	115,360	203,184	46,496	214,457	52,359	496,800	207,506	254,400	703,244	35,705	2,329,511	1,608,124	6,171,916	2,504,383	12,613,934
2004 <sup>1</sup>	93,159	249,126	42,821	158,780	32,329	541,901	346,013	215,299	841,481	39,654	2,560,563	1,407,669	5,353,316	2,720,550	12,042,098
2005 <sup>1</sup>	69,509	145,413	36,397	158,368	27,308	519,400	276,949	179,199	1,158,327	25,945	2,596,815	1,590,959	5,150,356	2,903,655	12,241,785
2006 <sup>1</sup>	86,981	133,701	29,302	155,512	41,101	378,697	287,999	193,503	896,420	31,193	2,234,409	1,597,831	5,929,967	3,479,961	13,242,168
2007 <sup>1</sup>	84,389	135,523	33,543	175,518	27,429	373,002	433,278	182,900	914,566	36,955	2,397,103	1,658,559	6,366,702	3,518,554	13,940,918
2008 <sup>1</sup>	95,054	208,056	38,331	177,621	26,039	288,299	239,992	169,500	694,093	26,857	1,963,842	1,733,259	6,280,226	3,355,452	13,332,779
2009 <sup>1</sup>	76,554	176,862	43,004	143,998	27,262	473,000	253,039	225,200	836,470	32,705	2,288,094	1,657,916	5,843,914	2,862,080	12,652,004
2010 <sup>1</sup>	49,649	168,422	36,980	139,070	32,019	322,361	235,718	187,464	868,635	25,198	2,065,516	1,823,345	7,329,953	3,134,567	14,353,381
2011 <sup>1</sup>	58,030	178,112	34,799	203,036	28,813	460,646	297,856	226,143	1,217,676	32,025	2,737,136	1,627,165	7,580,310	3,288,945	15,233,556
<b>AVERAGES:</b>															
1999-2011	83,753	182,118	38,411	180,434	35,470	448,131	265,072	223,147	1,020,801	32,677	2,510,013	1,675,383	6,408,376	2,939,191	13,532,963

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

K.L. Kruse FILE: S:\ICF\_D\projects\monitoring\harvest data\DATABOOK\HP\ALLDUCKTOTAL.HIP.XLS

# **AGE RATIOS IN THE U.S. HARVEST**

*D.E. SHARP S:\WKFILES\DATABOOKVAGERATIO.123*

### MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST

Derived from the Parts Collection Survey

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.69	0.63	0.68	0.81	1.08	1.10	0.47	0.91	0.48	0.42	0.73	0.91	0.89	0.96	0.88
2000	0.55	0.41	0.44	0.66	0.62	0.86	0.24	0.81	0.47	0.47	0.54	0.92	0.68	1.02	0.74
2001	0.66	0.62	0.61	0.71	1.00	1.34	0.39	0.72	0.53	0.47	0.71	1.14	1.33	1.22	1.13
2002	0.48	0.51	0.60	0.71	0.89	0.92	0.33	1.04	0.33	0.42	0.60	0.96	0.90	1.17	0.87
2003 <sup>1</sup>	0.86	0.70	0.83	0.84	1.10	1.44	0.48	1.34	0.42	0.90	0.87	1.26	1.40	1.51	1.29
2004 <sup>1</sup>	0.70	0.57	0.60	0.55	1.22	1.21	0.56	1.17	0.53	0.59	0.74	1.37	1.03	1.43	1.06
2005 <sup>1</sup>	0.98	1.07	0.85	1.08	1.95	2.60	0.53	1.98	1.04	0.82	1.26	1.54	1.63	1.98	1.62
2006 <sup>1</sup>	0.73	0.75	0.96	1.04	0.84	2.36	0.63	1.63	0.69	0.86	1.05	1.35	1.44	1.82	1.45
2007 <sup>1</sup>	1.08	1.03	1.24	1.04	1.69	2.13	0.64	1.79	0.69	0.80	1.07	1.31	1.20	1.23	1.20
2008 <sup>1</sup>	0.55	0.65	0.75	0.67	1.21	1.33	0.27	1.20	0.41	0.54	0.70	1.22	1.06	1.19	1.04
2009 <sup>1</sup>	0.68	0.64	0.77	0.81	1.35	2.35	0.42	1.67	0.69	0.87	1.01	1.37	1.24	3.40	1.25
2010 <sup>1</sup>	0.86	1.26	1.02	1.34	1.49	2.44	0.64	2.50	0.87	1.30	1.29	1.30	1.59	1.63	1.53
2011 <sup>1</sup>	1.60	1.24	1.02	1.22	1.52	3.66	0.68	2.90	0.86	1.56	1.52	1.24	1.91	2.28	1.85

<sup>1</sup> Preliminary

### FEMALE MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.16	1.35	1.36	1.35	1.33
2000	0.92	1.31	1.14	1.66	1.22
2001	1.38	1.81	2.52	1.95	2.09
2002	1.09	1.47	1.61	1.87	1.53
2003 <sup>1</sup>	1.67	1.89	2.47	2.48	2.26
2004 <sup>1</sup>	1.60	2.11	2.11	2.36	2.07
2005 <sup>1</sup>	2.63	2.40	3.13	3.38	3.02
2006 <sup>1</sup>	1.93	1.93	2.80	2.97	2.61
2007 <sup>1</sup>	2.10	1.73	2.09	1.84	1.94
2008 <sup>1</sup>	1.16	1.84	2.08	1.96	1.76
2009 <sup>1</sup>	2.19	2.00	2.78	2.28	2.31
2010 <sup>1</sup>	2.57	2.00	3.35	2.75	2.67
2011 <sup>1</sup>	2.68	1.84	3.79	4.12	3.11

<sup>1</sup> Preliminary

### MALE MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE REGULAR SEASON HARVEST

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999 <sup>1</sup>	0.61	0.74	0.70	0.83	0.72
2000 <sup>1</sup>	0.45	0.78	0.54	0.83	0.59
2001 <sup>1</sup>	0.57	0.90	1.02	1.00	0.88
2002 <sup>1</sup>	0.49	0.77	0.70	0.96	0.70
2003 <sup>1</sup>	0.72	1.04	1.11	1.23	1.03
2004 <sup>1</sup>	0.59	1.12	0.79	1.20	0.84
2005 <sup>1</sup>	1.01	1.25	1.28	1.62	1.29
2006 <sup>1</sup>	0.89	1.13	1.13	1.49	1.17
2007 <sup>1</sup>	0.89	1.13	0.99	1.04	1.01
2008 <sup>1</sup>	0.61	1.00	0.82	0.97	0.85
2009 <sup>1</sup>	0.82	1.12	0.93	1.16	1.01
2010 <sup>1</sup>	1.04	1.04	1.19	1.33	1.15
2011 <sup>1</sup>	1.27	1.01	1.45	1.81	1.39

<sup>1</sup> Preliminary

**NORTHERN PINTAIL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.88	1.16	1.26	0.97	1.05
2000	0.52	0.57	0.91	0.81	0.77
2001	0.87	1.04	1.41	0.62	0.93
2002	1.06	1.34	1.79	0.95	1.27
2003 <sup>1</sup>	1.53	2.29	2.49	0.97	1.54
2004 <sup>1</sup>	1.06	0.76	1.03	0.69	0.89
2005 <sup>1</sup>	1.27	2.07	1.29	1.38	1.38
2006 <sup>1</sup>	0.94	1.66	1.28	0.98	1.09
2007 <sup>1</sup>	0.82	1.70	1.43	1.03	1.13
2008 <sup>1</sup>	1.06	0.94	0.96	0.54	0.75
2009 <sup>1</sup>	1.09	0.66	1.30	0.98	1.07
2010 <sup>1</sup>	1.31	1.77	2.03	1.24	1.46
2011 <sup>1</sup>	0.90	1.30	1.67	1.44	1.35

<sup>1</sup> Preliminary

**GADWALL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.27	1.98	1.25	0.92	1.25
2000	0.56	0.79	0.71	0.92	0.68
2001	1.00	0.82	1.32	0.78	1.14
2002	0.80	0.52	0.68	1.01	0.74
2003 <sup>1</sup>	1.62	0.86	1.23	1.41	1.34
2004 <sup>1</sup>	0.92	0.73	0.93	0.96	0.93
2005 <sup>1</sup>	1.17	1.30	1.81	1.78	1.52
2006 <sup>1</sup>	0.94	1.35	1.39	1.13	1.19
2007 <sup>1</sup>	1.29	1.35	1.37	0.79	1.25
2008 <sup>1</sup>	0.70	0.79	0.74	0.79	0.74
2009 <sup>1</sup>	1.16	1.00	1.32	1.03	1.22
2010 <sup>1</sup>	1.68	1.82	1.72	1.34	1.66
2011 <sup>1</sup>	1.38	2.61	1.82	1.46	1.68

<sup>1</sup> Preliminary

**AMERICAN WIGEON AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.70	1.08	0.99	0.88	0.88
2000	0.44	0.50	0.59	0.94	0.66
2001	0.76	1.02	1.17	1.02	0.99
2002	0.88	0.92	1.31	1.67	1.30
2003 <sup>1</sup>	1.34	0.90	1.31	1.11	1.21
2004 <sup>1</sup>	0.80	0.75	1.30	1.23	1.09
2005 <sup>1</sup>	0.80	0.84	1.85	2.05	1.48
2006 <sup>1</sup>	0.83	1.95	2.62	1.38	1.40
2007 <sup>1</sup>	0.82	1.22	1.65	1.31	1.26
2008 <sup>1</sup>	0.94	0.67	0.91	1.09	1.02
2009 <sup>1</sup>	0.71	0.66	1.37	1.29	1.10
2010 <sup>1</sup>	1.11	1.79	1.69	1.34	1.41
2011 <sup>1</sup>	0.76	1.43	1.97	1.76	1.48

<sup>1</sup> Preliminary

**WOOD DUCK AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.05	1.04	1.38	1.24	1.25
2000	0.63	1.22	0.99	2.18	1.04
2001	1.31	1.20	2.05	1.29	1.60
2002	1.03	1.15	1.67	1.25	1.43
2003 <sup>1</sup>	1.07	1.59	1.66	1.57	1.58
2004 <sup>1</sup>	1.36	1.28	1.53	2.39	1.47
2005 <sup>1</sup>	1.01	1.27	1.32	2.41	1.32
2006 <sup>1</sup>	1.08	0.99	1.61	2.06	1.37
2007 <sup>1</sup>	1.64	0.97	1.28	1.12	1.18
2008 <sup>1</sup>	1.63	1.21	1.77	1.23	1.53
2009 <sup>1</sup>	1.01	1.31	2.05	2.08	1.71
2010 <sup>1</sup>	1.42	1.20	1.78	1.43	1.54
2011 <sup>1</sup>	1.09	0.90	1.22	1.69	1.12

<sup>1</sup> Preliminary

**REDHEAD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.75	2.24	3.02	0.80	1.93
2000	0.42	0.43	0.72	0.73	0.53
2001	0.71	0.46	1.97	0.44	0.93
2002	0.24	0.10	0.21	1.10	0.30
2003 <sup>1</sup>	1.64	0.54	1.58	1.69	1.53
2004 <sup>1</sup>	0.81	0.29	0.80	1.54	0.89
2005 <sup>1</sup>	2.63	2.18	3.15	2.11	2.70
2006 <sup>1</sup>	2.13	1.47	2.32	1.50	2.07
2007 <sup>1</sup>	2.21	1.47	2.45	1.18	2.09
2008 <sup>1</sup>	0.56	0.13	0.68	0.52	0.56
2009 <sup>1</sup>	1.56	0.38	1.62	0.70	1.32
2010 <sup>1</sup>	3.47	1.93	6.54	1.27	3.69
2011 <sup>1</sup>	2.15	2.30	4.51	2.46	3.03

<sup>1</sup> Preliminary

**GREATER SCAUP AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999			0.99	1.74	0.84
2000			0.75	1.54	1.23
2001			1.46	2.27	0.48
2002		3.31	1.65	2.87	0.94
2003 <sup>1</sup>			0.98	1.37	0.72
2004 <sup>1</sup>		8.65	2.06	3.05	1.71
2005 <sup>1</sup>			0.87	2.58	1.06
2006 <sup>1</sup>			1.81	1.80	0.56
2007 <sup>1</sup>			0.78	1.26	1.19
2008 <sup>1</sup>			0.37	0.79	1.22
2009 <sup>1</sup>			0.63	1.24	1.19
2010 <sup>1</sup>			0.57	1.15	0.64
2011 <sup>1</sup>			0.86	2.01	0.48

<sup>1</sup> Preliminary

**LESSER SCAUP AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**

Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.88	0.26	0.62	1.02	0.57
2000	0.41	0.33	0.36	1.20	0.42
2001	1.04	0.67	0.60	1.65	0.75
2002	1.35	0.47	0.85	1.66	0.88
2003 <sup>1</sup>	0.95	0.77	1.33	1.58	1.16
2004 <sup>1</sup>	1.16	0.37	0.89	1.74	0.92
2005 <sup>1</sup>	0.54	0.50	0.57	2.11	0.63
2006 <sup>1</sup>	1.13	0.85	1.79	1.77	1.39
2007 <sup>1</sup>	1.08	0.77	1.05	1.36	1.05
2008 <sup>1</sup>	0.67	0.46	0.63	2.57	0.75
2009 <sup>1</sup>	0.82	0.52	0.53	1.37	0.66
2010 <sup>1</sup>	1.23	0.80	1.54	1.07	1.24
2011 <sup>1</sup>	1.29	1.18	1.55	1.29	1.39

<sup>1</sup> Preliminary

**BLUE-WINGED TEAL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.82	1.39	1.95	1.27	1.83
2000	1.76	0.74	1.39	0.96	1.42
2001	2.27	1.24	2.42	1.20	2.19
2002	1.90	0.80	1.96	1.13	1.74
2003 <sup>1</sup>	2.69	1.29	1.95	1.50	2.04
2004 <sup>1</sup>	1.57	0.88	1.34	0.87	1.29
2005 <sup>1</sup>	2.28	1.36	2.47	1.41	2.09
2006 <sup>1</sup>	2.10	1.39	1.75	1.07	1.74
2007 <sup>1</sup>	2.85	1.24	1.87	1.73	2.03
2008 <sup>1</sup>	1.59	0.86	0.92	0.83	1.03
2009 <sup>1</sup>	1.42	0.96	1.24	0.63	1.22
2010 <sup>1</sup>	1.57	0.97	1.71	0.94	1.52
2011 <sup>1</sup>	2.36	1.97	1.59	1.34	1.79

<sup>1</sup> Preliminary and based on all-season harvest.

**GREEN-WINGED TEAL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.33	2.37	1.63	1.04	1.47
2000	1.50	1.20	1.07	1.21	1.21
2001	1.79	1.16	1.98	1.03	1.56
2002	1.78	1.85	2.13	1.40	1.81
2003 <sup>1</sup>	2.10	1.83	1.91	1.14	1.71
2004 <sup>1</sup>	1.82	1.30	1.07	1.28	1.29
2005 <sup>1</sup>	1.37	1.67	1.96	1.74	1.72
2006 <sup>1</sup>	1.97	2.00	2.30	1.45	1.89
2007 <sup>1</sup>	1.83	1.90	1.98	1.22	1.66
2008 <sup>1</sup>	1.68	1.61	1.68	0.92	1.26
2009 <sup>1</sup>	1.59	1.62	1.23	1.05	1.25
2010 <sup>1</sup>	1.68	1.95	1.61	0.87	1.39
2011 <sup>1</sup>	1.81	1.97	2.00	1.28	1.75

<sup>1</sup> Preliminary and based on all-season harvest.

# **SEX RATIOS IN THE U.S. HARVEST**

D.E. SHARP FILE S:\DATABOOK\TITLES\SEXRATIO.123

**MALLARD ADULT SEX RATIOS (MALE/FEMALE) IN THE REGULAR SEASON HARVEST**

Derived from the Parts Collection Survey

<b>YR</b>	<b>CEN FLYWAY</b>	<b>ATL FLYWAY</b>	<b>MISS FLYWAY</b>	<b>PAC FLYWAY</b>	<b>U.S.</b>
1999	3.57	2.70	2.77	2.90	2.91
2000	4.27	2.43	3.27	3.25	3.33
2001	4.76	2.82	3.79	3.25	3.79
2002	4.42	2.84	3.42	3.24	3.52
2003 <sup>1</sup>	4.98	2.83	3.65	3.40	3.75
2004 <sup>1</sup>	5.62	2.75	4.30	3.92	4.31
2005 <sup>1</sup>	5.31	3.00	4.17	3.79	4.12
2006 <sup>1</sup>	5.51	2.72	4.47	3.51	4.13
2007 <sup>1</sup>	5.96	2.40	4.13	3.22	3.93
2008 <sup>1</sup>	5.53	2.88	4.39	3.67	4.12
2009 <sup>1</sup>	6.44	2.64	5.08	3.38	4.39
2010 <sup>1</sup>	5.32	2.70	4.38	3.71	4.03
2011 <sup>1</sup>	4.91	2.78	4.16	3.95	3.95

<sup>1</sup> Preliminary**MALLARD IMMATURE SEX RATIOS (MALE/FEMALE) IN THE REGULAR SEASON HARVEST**

Derived from the Parts Collection Survey

<b>YR</b>	<b>CEN FLYWAY</b>	<b>ATL FLYWAY</b>	<b>MISS FLYWAY</b>	<b>PAC FLYWAY</b>	<b>U.S.</b>
1999	1.87	1.48	1.46	1.78	1.58
2000	2.10	1.40	1.54	1.60	1.60
2001	1.96	1.40	1.51	1.66	1.59
2002	1.98	1.49	1.46	1.64	1.57
2003 <sup>1</sup>	2.22	1.57	1.67	1.73	1.74
2004 <sup>1</sup>	2.14	1.48	1.64	2.03	1.77
2005 <sup>1</sup>	2.12	1.57	1.75	1.85	1.80
2006 <sup>1</sup>	2.53	1.59	1.80	1.76	1.85
2007 <sup>1</sup>	2.53	1.57	1.95	1.83	1.97
2008 <sup>1</sup>	2.92	1.57	1.73	1.82	2.01
2009 <sup>1</sup>	2.42	1.48	1.71	1.72	1.83
2010 <sup>1</sup>	2.14	1.41	1.55	1.80	1.73
2011 <sup>1</sup>	2.33	1.53	1.59	1.74	1.80

<sup>1</sup> Preliminary

K.L.Kruse FILE: S:\ICF\_D\projects\monitoring\harvest data\DATABOOK\HIP\SEXRATIOHIP.XLS

07/11/12

# **DUCK HARVESTS IN CANADA**

*D.E. SHARP S:\WKFILES\DATA\BOOK\AGERATIO.123*

## ESTIMATES OF MALLARD HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	TOTAL
1968 <sup>1</sup>					41,800	231,700	148,600	191,500	275,000	138,300			1,026,900
1969 <sup>1</sup>	100	200	900	500	38,400	228,900	281,300	386,300	541,800	131,900			1,610,300
1970 <sup>1</sup>				700	1,000	42,200	213,900	198,000	531,700	634,300	133,800		2,023,400
1971 <sup>1</sup>	400	400	700	800	42,400	223,800	198,000	531,700	568,000	113,700			1,679,500
1972	400	100	800	61,500	254,200	214,500	477,800	557,600	114,800				1,682,500
1973	100	400	1,200	72,300	255,400	137,500	349,100	546,900	106,000				1,470,100
1974	300	200	500	1,300	74,100	257,200	145,000	499,600	714,100	108,600			1,800,900
1975	700	400	900	700	58,200	266,200	154,300	572,100	531,500	122,700	4,700		1,743,700
1976	700	300	1,500	800	73,700	318,200	205,100	608,700	612,300	116,200	13,800		1,300
1977	1,100	200	2,300	700	83,600	264,900	163,100	392,400	515,600	129,300	10,700		800
1978	800	300	1,200	1,500	62,400	322,400	239,600	396,700	379,600	116,800	6,700		1,529,300
1979	500	500	800	1,600	68,300	245,100	422,700	486,500	116,500	2,700	1,900		1,612,700
1980	0	1,000	3,200	1,400	81,300	290,500	210,000	354,600	482,400	103,400	5,000		1,534,200
1981	2,400	1,400	2,400	2,500	92,800	281,400	174,600	230,200	388,200	115,000	2,400		1,294,200
1982	500	400	1,400	1,800	94,800	333,700	150,300	241,100	265,000	91,500	3,100		1,213,600
1983	1,100	1,000	4,100	2,500	87,100	297,800	159,800	285,800	363,700	121,600	4,000		1,329,400
1984	800	700	2,100	1,600	66,800	283,600	118,100	181,700	304,800	89,900	7,500		1,059,300
1985	400	1,300	3,200	3,300	97,200	290,500	84,500	158,400	180,900	81,800	5,800		908,500
1986	2,500	700	3,200	2,500	84,400	265,400	113,500	151,100	182,000	72,200	800		879,200
1987	1,100	1,100	4,200	3,200	116,800	319,100	137,000	163,600	215,300	78,300	500		1,040,500
1988	0	1,000	2,400	1,600	82,300	233,700	59,800	73,500	138,000	64,000	4,700		661,400
1989	1,300	1,000	4,500	2,200	74,000	262,100	68,300	74,800	186,700	57,100	1,600		734,400
1990	1,000	900	3,500	3,200	86,500	262,700	56,700	78,800	173,900	60,100	2,000		729,700
1991	1,000	1,100	3,800	4,700	77,700	218,300	60,200	70,300	121,000	51,700	100		610,600
1992	967	198	6,343	5,260	89,551	196,776	66,189	66,902	95,405	51,840	688		580,343
1993	1,063	1,071	5,110	3,585	97,625	197,754	41,191	49,752	80,268	43,430	1,158		547
1994	830	828	3,172	2,755	103,446	192,356	56,301	87,448	108,951	49,233	1,999		607,520
1995	532	751	4,822	5,131	83,307	176,680	74,206	104,296	111,048	40,782	1,509		703,342
1996	351	1,024	4,286	4,044	82,201	176,869	91,266	121,608	115,668	42,447	1,326		641,090
1997	1,461	417	8,047	5,371	77,594	178,169	107,379	133,017	151,167	55,513	437		126
1998	1,628	1,011	5,440	7,512	76,320	164,431	102,470	129,461	159,826	52,663	881		276
1999	1,188	667	6,305	4,866	69,568	131,901	82,639	182,714	105,126	48,002	0		633,196
2000	1,511	1,915	5,481	5,999	81,655	162,352	78,201	105,276	107,203	49,272	510		72
2001	601	1,192	5,721	7,047	79,896	166,629	92,115	107,413	94,699	35,575	643		591,760
2002	300	2,176	6,498	6,002	66,533	147,847	77,992	118,857	80,707	37,371	1,702		609
2003	696	804	4,711	6,511	58,873	138,099	66,403	126,397	73,088	35,384	410		511,486
2004	1,985	1,100	5,245	5,228	65,284	132,188	75,970	129,630	78,270	28,516	275		523,728
2005	754	1,681	4,544	4,732	72,231	115,284	87,315	144,393	78,798	33,586	688		544,006
2006	753	1,122	5,490	6,389	72,245	124,751	111,026	174,174	88,533	28,928	215		613,626
2007	1,837	1,289	5,711	7,030	65,187	119,403	68,121	163,912	82,133	30,167	897		265
2008	48	1,725	4,748	5,662	69,899	119,971	60,690	150,906	97,567	35,924	0		488
2009	80	651	4,079	3,377	65,216	106,537	61,460	135,546	62,778	32,736	0		472,527
2010	1,122	2,213	4,129	4,665	56,523	105,400	48,539	125,686	68,014	28,301	0		444,592
2011	670	3,434	5,296	5,501	62,037	105,529	59,170	143,258	91,670	32,990	334		509,889

AVERAGES:

1972-79	575	300	1,150	1,075	69,263	279,263	188,025	464,888	543,013	116,363	7,720		1,669,525	
1980-89	1,010	960	3,070	2,260	87,750	285,780	127,590	191,480	273,700	87,480	3,540		1,065,470	
1990-99	1,002	797	5,083	4,642	84,381	189,594	74,054	102,430	118,236	49,571	1,008		631,096	
2000-2009	857	1,366	5,223	5,798	69,702	133,306	77,929	144,650	84,378	34,746	534		558,675	
2012-2011	877	982	3,809	3,644	77,275	213,296	110,191	209,341	231,673	67,754	2,426		532	921,577

<sup>1</sup> Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used.

K.L. Kruse File: SICF\_D\project\monitoring\harvest\data\DATABOOK\FY\PU

07/10/12

**ESTIMATES OF PINTAIL HARVESTS IN CANADA**

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	TOTAL
1968 <sup>1</sup>	N/A	N/A	N/A	N/A	21,300	N/A	25,800	16,300	51,200	55,500	N/A	N/A	170,100
1969 <sup>1</sup>	2,200	800	500	1,000	20,500	1,0900	21,100	33,800	48,700	23,700	N/A	N/A	163,200
1970 <sup>1</sup>	900	1,300	1,400	1,900	26,600	14,900	30,700	66,400	78,100	36,500	N/A	N/A	258,700
1971 <sup>1</sup>	1,000	700	600	1,500	25,800	10,300	46,000	71,600	28,400	N/A	N/A	N/A	206,300
1972	1,000	400	400	400	16,900	9,700	16,700	29,100	68,900	48,700	N/A	N/A	192,200
1973	2,600	500	1,100	1,000	19,400	10,500	18,300	31,000	94,700	48,900	N/A	N/A	228,000
1974	1,100	1,100	1,300	1,300	21,000	10,800	10,700	51,900	98,700	25,700	N/A	N/A	223,600
1975	900	400	500	800	22,000	9,700	20,400	56,300	82,500	23,200	200	700	217,600
1976	1,300	700	1,000	1,700	29,000	17,300	17,600	34,300	60,800	35,200	2,600	300	201,800
1977	2,400	1,800	1,200	1,000	40,600	14,500	11,600	19,900	71,300	30,400	600	400	195,700
1978	900	800	700	1,400	20,600	13,200	20,700	13,700	38,100	23,000	2,200	200	135,500
1979	1,800	600	500	1,100	15,300	9,100	20,300	29,600	48,300	17,900	1,700	200	146,400
1980	900	500	700	1,300	17,100	13,300	12,700	17,900	43,900	20,900	0	100	129,300
1981	1,100	800	1,000	1,200	17,500	11,600	15,100	2,300	41,000	19,200	100	400	111,300
1982	0	1,600	1,100	1,500	20,300	10,200	14,300	12,700	28,700	14,000	0	0	104,400
1983	2,300	600	700	300	16,300	10,600	11,800	16,800	27,800	13,200	3,700	300	104,400
1984	1,700	1,100	700	900	9,500	35,500	13,200	13,000	32,500	18,700	500	500	127,800
1985	1,600	1,000	1,400	1,800	16,500	15,300	10,900	7,700	23,700	11,500	0	900	92,300
1986	700	600	800	1,700	13,000	9,400	6,700	9,000	9,000	8,800	0	800	60,500
1987	1,100	800	600	1,100	11,900	6,300	5,400	8,800	21,200	11,600	0	700	70,500
1988	2,200	1,300	500	800	12,600	8,000	14,000	6,000	15,300	11,000	0	0	71,700
1989	1,300	600	300	1,400	15,300	11,600	7,700	5,100	12,000	8,300	200	0	63,800
1990	4,400	500	700	1,700	19,800	8,300	5,600	10,200	13,600	7,700	600	100	73,200
1991	400	600	900	800	7,600	4,300	4,500	4,600	5,700	4,000	100	100	33,600
1992	0	904	84	473	6,327	4,857	5,214	2,076	6,930	6,521	169	67	33,622
1993	1,133	1,228	911	682	11,113	4,946	5,103	3,263	3,907	4,447	65	0	36,798
1994	946	707	1,093	1,084	10,887	4,526	4,769	7,229	7,252	4,727	0	63	43,283
1995	1,727	454	965	1,240	7,831	4,552	8,974	6,521	7,573	4,476	0	0	44,313
1996	1,246	478	897	1,234	5,043	4,011	10,323	14,477	9,621	5,367	0	0	52,697
1997	785	139	116	493	7,423	5,560	13,248	13,656	13,883	5,422	37	0	60,762
1998	1,026	0	653	757	7,735	6,361	14,347	11,099	11,119	6,462	19	276	59,854
1999	390	1,137	755	1,790	8,956	6,457	9,830	10,610	10,304	5,464	0	0	55,693
2000	470	509	499	581	6,480	5,397	8,766	16,168	13,603	5,825	50	0	58,348
2001	1,37	0	401	611	4,911	3,709	9,207	7,051	8,732	4,807	19	60	39,645
2002	1,153	78	543	702	5,527	9,910	13,879	13,054	7,640	4,551	0	0	57,038
2003	572	598	228	1,270	6,795	10,422	8,999	8,688	8,205	1,948	234	0	47,959
2004	30	317	129	702	6,394	5,208	12,624	23,803	8,380	2,363	0	0	59,950
2005	256	313	308	536	4,677	3,178	6,653	13,450	10,769	3,675	0	0	43,815
2006	176	939	90	382	5,067	4,861	8,579	11,853	12,527	2,004	39	0	46,517
2007	228	584	660	634	5,533	5,059	13,329	18,054	10,058	2,410	224	0	56,800
2008	427	252	393	427	4,887	5,745	7,911	15,076	12,833	2,989	0	0	50,940
2009	0	190	104	504	4,039	4,684	4,582	17,226	6,138	2,837	0	22	40,326
2010	296	955	832	609	6,209	6,410	4,894	13,625	6,708	2,062	0	0	42,600
2011	302	0	578	263	3,287	1,670	6,188	20,217	14,053	2,755	0	0	49,313
<b>AVERAGES:</b>													
1972-79	1,500	788	838	1,088	23,100	11,850	17,038	33,225	70,413	31,625	1,460	360	192,600
1980-89	1,290	990	780	1,200	15,000	13,180	11,180	9,930	25,510	13,720	450	370	93,600
1990-99	1,205	615	707	1,025	9,272	5,387	8,191	8,373	8,989	5,459	99	61	49,382
2000-2009	345	378	336	635	5,431	5,817	9,453	14,442	9,891	3,341	57	8	50,134
1972-2011	1,025	677	658	954	12,283	8,668	10,890	15,677	25,699	12,075	361	167	89,097

<sup>1</sup> Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used.

## ESTIMATES OF ALL-DUCK HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NUN	TOTAL
1968 <sup>1</sup>	44,300	19,400	54,800	59,600	333,300	794,000	295,700	292,700	459,100	362,600	N/A	N/A	N/A	2,715,500
1969 <sup>1</sup>	62,700	25,300	50,100	62,900	465,700	928,100	467,300	557,700	778,200	270,100	N/A	N/A	N/A	3,668,100
1970 <sup>1</sup>	66,500	28,900	59,200	61,000	464,900	872,300	518,100	930,500	904,700	283,900	N/A	N/A	N/A	4,196,000
1971 <sup>1</sup>	53,300	30,500	71,100	56,600	454,500	739,000	332,200	690,200	848,000	228,600	N/A	N/A	N/A	3,504,000
1972	56,200	18,200	55,700	51,100	414,900	815,700	356,200	615,100	800,200	260,700	N/A	N/A	N/A	3,444,000
1973	111,500	18,000	117,400	51,900	493,100	752,700	251,900	471,900	831,600	255,400	N/A	N/A	N/A	3,355,400
1974	103,800	31,400	105,500	58,700	569,500	811,500	249,600	689,700	1,014,300	210,900	N/A	N/A	N/A	3,854,900
1975	101,700	28,400	118,000	59,100	467,900	938,300	299,200	807,300	850,700	236,200	9,500	5,000	5,000	3,921,300
1976	98,400	37,400	117,900	68,600	602,900	976,400	352,300	807,800	886,600	231,200	29,200	29,200	29,200	4,212,600
1977	132,900	30,200	134,500	53,800	631,200	913,300	259,400	508,800	781,100	259,600	31,000	31,000	31,000	3,728,700
1978	142,700	30,000	109,500	65,800	529,100	943,200	361,200	527,300	581,700	210,500	18,100	3,000	3,000	3,522,100
1979	122,200	20,900	88,400	49,100	460,400	845,400	383,400	582,700	679,300	204,400	9,400	3,000	3,000	3,448,600
1980	106,000	31,900	124,700	59,900	500,200	912,100	335,100	443,600	688,800	186,300	11,500	3,000	3,000	3,403,100
1981	114,400	26,200	113,600	59,000	507,900	850,100	293,900	273,300	525,600	188,300	5,000	1,500	1,500	2,958,800
1982	111,500	39,600	87,700	60,600	512,500	862,000	280,900	324,100	458,200	163,500	3,100	1,100	1,100	2,904,400
1983	119,500	36,100	117,300	72,900	454,000	888,400	284,400	381,700	515,700	193,500	13,000	3,000	3,000	3,079,500
1984	115,500	35,000	95,600	68,900	439,800	832,800	215,300	258,300	438,500	173,700	11,500	3,200	3,200	2,688,100
1985	110,300	31,100	92,300	69,600	494,900	871,500	174,500	210,900	282,800	145,400	15,500	3,000	3,000	2,501,800
1986	124,300	29,600	99,800	71,000	434,100	821,800	207,800	226,500	273,600	124,300	5,400	2,900	2,900	2,421,100
1987	59,200	28,700	86,100	59,900	468,900	772,400	213,200	205,300	305,300	133,000	4,400	1,500	1,500	2,339,800
1988	83,800	34,300	84,800	63,600	446,900	661,300	126,000	104,800	183,100	115,500	5,100	1,300	1,300	1,910,500
1989	92,700	21,600	120,700	64,400	433,800	682,800	121,000	104,100	254,800	102,300	1,200	800	800	2,000,200
1990	91,500	20,100	104,000	70,500	456,300	684,500	111,800	115,900	231,900	96,200	2,100	500	500	1,985,300
1991	55,800	28,500	76,700	47,600	357,400	618,600	106,700	102,800	164,600	78,300	800	1,100	1,100	1,640,400
1992	63,490	14,995	90,203	52,749	345,468	539,960	119,146	90,093	129,381	80,352	1,237	864	864	1,527,938
1993	63,384	21,069	90,346	49,239	385,095	564,701	91,892	76,017	119,744	69,688	1,746	1,319	1,319	1,534,240
1994	78,453	17,530	87,322	51,273	342,454	502,989	113,788	128,611	163,664	76,716	1,999	882	882	1,565,681
1995	67,360	27,892	93,199	74,272	298,998	512,934	135,147	149,321	152,792	62,222	2,156	1,392	1,392	1,577,685
1996	56,533	19,257	79,992	56,202	255,647	460,414	168,503	190,133	183,079	72,241	1,988	597	597	1,544,586
1997	57,709	21,371	74,203	50,635	261,923	461,372	183,468	204,211	229,746	81,180	1,667	392	392	1,627,877
1998	61,367	15,361	82,094	59,803	256,382	425,275	175,742	205,545	207,071	87,429	1,985	1,102	1,102	1,542,156
1999	51,464	19,923	86,556	56,641	270,264	385,577	162,355	233,178	157,613	70,934	1,431	308	308	1,496,244
2000	63,617	13,540	69,188	52,476	367,333	484,147	242,275	160,684	173,409	1,055	460	114	114	1,436,784
2001	50,206	17,815	58,477	41,655	215,780	364,497	168,274	153,503	135,353	55,594	1,021	409	0	1,262,585
2002	50,457	15,651	62,118	43,051	189,473	351,891	155,537	173,087	125,532	58,736	3,344	0	0	1,230,008
2003	41,648	14,637	55,788	44,613	177,880	313,728	128,550	185,457	124,369	51,992	1,815	548	710	1,141,735
2004	44,272	9,944	47,771	32,306	171,618	289,678	146,093	195,058	136,064	43,430	1,927	184	0	1,118,345
2005	42,897	12,410	44,881	34,811	182,650	273,663	161,893	152,848	152,716	52,576	2,063	2,293	0	1,188,700
2006	48,136	12,680	44,651	37,114	186,036	303,980	173,738	243,088	153,470	41,051	524	167	0	1,244,635
2007	63,554	12,287	57,347	39,324	172,585	273,613	143,709	242,541	159,477	44,313	1,569	1,855	0	1,212,174
2008	59,079	11,164	51,031	37,006	184,236	279,513	129,988	222,761	173,402	53,351	334	975	0	1,202,840
2009	47,660	10,115	40,471	28,484	169,740	252,948	124,371	187,240	110,861	46,557	2,659	155	0	1,021,261
2010	44,609	14,787	41,938	40,257	162,177	263,081	115,250	204,102	121,573	45,167	696	0	0	1,053,637
2011	46,879	13,593	41,666	32,894	165,466	268,672	124,777	268,147	147,933	49,614	835	0	0	1,160,476
<b>AVERAGES:</b>														
1972-79	108,675	26,813	105,863	57,263	521,125	874,563	314,150	627,575	803,188	233,613	17,400	3,600	0	3,685,950
1980-89	103,720	31,410	102,260	64,980	469,300	815,520	225,210	253,450	392,640	152,540	7,570	2,130	0	2,620,730
1990-99	64,706	20,600	86,462	56,891	322,993	515,632	136,854	149,581	170,259	77,676	1,711	846	0	1,604,211
2000-2009	51,153	13,024	53,172	39,084	189,448	307,084	148,030	207,086	143,193	52,101	1,631	818	82	1,205,907
1972-2011	78,917	22,331	83,736	53,520	357,851	597,765	196,354	289,850	343,898	119,671	5,342	1,512	69	2,150,255

<sup>1</sup> Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used.

K.L. Kruse FILE: SICF\_D\Projects\monitoring\harvest\data\DATA00\H\PAULLDUCKTOTAL.H

\*0-Jul-12

# **DUCK HARVESTS IN NORTH AMERICA**

*D.E. SHARP S:\WKFILES\DATABOOKNAHARV.123*

**ESTIMATES OF ENTIRE SEASON MALLARD HARVESTS IN THE UNITED STATES (Harvest Information Program) AND CANADA**

YR	UNITED STATES					CANADA				NORTH AMERICAN TOTAL
	ATLANTIC FLYWAY	MISSISSIPPI FLYWAY	CENTRAL FLYWAY	PACIFIC FLYWAY	ALASKA	U.S. TOTAL	EASTERN CANADA <sup>2</sup>	MB/SK/AB	BRITISH COLUMBIA	
1999	444,068	3,137,726	995,528	1,295,088	23,385	5,895,795	214,495	370,479	48,002	633,196
2000	523,046	3,272,671	1,035,988	1,218,394	19,085	6,069,184	258,913	380,680	49,272	689,447
2001	472,682	2,756,047	1,178,357	1,003,857	27,711	5,478,655	261,086	294,227	35,575	591,760
2002	538,846	2,374,276	1,013,838	887,246	19,541	4,833,747	229,356	277,556	37,371	546,594
2003 <sup>1</sup>	427,301	2,483,361	962,154	1,033,457	24,824	4,931,097	209,694	265,888	35,384	520
2004 <sup>1</sup>	422,091	2,199,931	969,467	918,681	21,479	4,531,649	211,030	283,870	28,516	312
2005 <sup>1</sup>	444,305	2,049,383	868,144	1,074,807	30,288	4,466,927	199,226	310,506	33,586	688
2006 <sup>1</sup>	399,651	2,286,643	709,952	1,249,549	22,616	4,668,411	210,750	373,733	28,928	215
2007 <sup>1</sup>	429,917	2,514,119	806,861	1,107,485	20,039	4,878,421	200,457	314,166	30,167	545,952
2008 <sup>1</sup>	503,480	2,282,128	677,267	1,069,968	22,126	4,554,969	202,053	309,163	35,924	547,628
2009 <sup>1</sup>	419,279	2,075,916	721,474	896,866	21,078	4,134,613	179,940	259,784	32,736	67
2010 <sup>1</sup>	394,429	2,228,872	603,214	906,964	32,534	4,166,013	174,052	202,239	28,301	444,592
2011 <sup>1</sup>	315,897	2,240,248	773,332	1,059,280	20,338	4,409,095	182,467	294,098	32,990	334
<b>AVERAGES:</b>										
1999-2011	441,153	2,457,025	870,429	1,055,511	23,465	4,847,583	210,271	302,799	35,135	598
										5,399,462

<sup>1</sup>Preliminary

<sup>2</sup>NF, PE, NS, NB, PQ, and ON  
K.L. Kruse FILE: S:\ICF\Projects\Monitoring\Harvest\data\DATABOOKH\P\ALLDUCKTOTALH\P.XLS

# **GOOSE HARVESTS IN NORTH AMERICA**

*D.E. SHARP S:\DATABOOK\TITLES\GOOSEHAR.123*

**ESTIMATED REGULAR SEASON SNOW/BLUE GOOSE HARVESTS (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	7,620	10,405	63	22,114	3,081	62,014	4,697	13,959	293,635	0	417,588	54,711	302,278	51,613	826,190	192,517	1,018,707
2000	6,990	8,164	0	2,745	3,811	31,119	7,843	2,500	285,993	114	349,279	72,257	160,752	38,439	620,727	227,228	847,955
2001	7,951	4,091	106	5,240	7,465	41,125	4,434	16,489	213,685	0	300,586	77,802	226,716	44,572	649,675	241,069	890,744
2002	9,778	14,751	291	11,347	4,377	20,146	2,834	23,234	144,056	0	230,814	39,295	110,766	46,527	427,402	172,595	599,997
2003 <sup>1</sup>	14,664	16,570	453	4,778	2,327	24,803	1,406	27,920	123,247	325	216,493	36,105	186,862	42,607	482,067	172,595	599,997
2004 <sup>1</sup>	7,988	14,439	113	771	1,017	17,647	2,529	28,802	110,504	0	183,810	31,548	168,358	40,611	424,327	175,279	599,606
2005 <sup>1</sup>	5,554	3,495	54	3,815	1,723	19,163	7,273	21,125	191,235	0	253,437	36,102	219,699	63,779	573,017	178,095	751,112
2006 <sup>1</sup>	8,742	11,446	0	888	2,067	31,261	7,554	25,317	107,290	0	194,565	33,256	140,300	71,479	439,600	269,030	708,630
2007 <sup>1</sup>	9,962	9,630	83	856	1,609	28,120	4,501	10,581	112,830	0	178,172	50,742	140,802	87,738	457,454	169,175	626,629
2008 <sup>1</sup>	3,038	8,991	0	1,199	124	31,321	2,416	25,420	100,084	0	172,593	58,752	145,962	87,274	464,581	278,977	743,558
2009 <sup>1</sup>	3,096	4,001	494	3,040	621	31,075	1,767	17,517	49,905	66	111,582	29,426	65,625	53,640	260,273	155,299	415,572
2010 <sup>1</sup>	2,081	3,296	0	0	276	34,554	7,542	17,535	88,476	0	153,760	18,293	82,934	65,034	320,021	161,482	481,503
2011 <sup>1</sup>	8,026	17,944	0	6,964	1,551	28,448	1,881	11,846	92,236	248	169,144	37,592	122,573	64,115	393,424	212,430	605,854

**AVERAGES:**

1999-2011	7,345	9,786	127	4,904	2,311	30,830	4,360	18,634	147,167	58	225,525	44,298	159,510	58,264	487,597	205,611	693,208
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<sup>1</sup> Preliminary

<sup>2</sup> Pacific Flyway total includes Alaska

07/12/12

**ESTIMATED REGULAR SEASON ROSS'S GOOSE HARVESTS (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	1,499	1,643	0	3,797	1,761	360	361	787	47,491	0	57,699	0	9,343	28,318	95,360	22,749	118,109
2000	760	0	191	732	1,755	338	941	0	31,269	0	35,986	0	6,542	6,850	49,378	17,895	67,273
2001	1,817	314	0	629	10,451	2,896	1,162	1,725	40,729	0	59,723	0	18,780	14,834	93,337	20,985	114,322
2002	1,029	3,471	94	331	1,908	528	1,417	664	27,617	0	37,059	0	8,496	16,248	61,803	33,956	95,759
2003 <sup>1</sup>	2,122	2,693	0	735	1,138	109	703	603	22,244	0	30,347	0	17,332	16,904	64,583	30,621	95,204
2004 <sup>1</sup>	1,332	2,042	0	193	2,288	213	1,167	983	23,527	0	31,745	0	4,625	11,070	47,440	22,092	69,532
2005 <sup>1</sup>	444	194	0	544	1,000	913	2,273	315	37,416	0	43,099	0	3,970	8,026	55,095	14,331	69,426
2006 <sup>1</sup>	4,687	1,402	0	381	910	912	3,110	463	12,070	0	23,935	82	10,102	6,627	40,746	28,082	68,828
2007 <sup>1</sup>	1,566	1,313	0	143	724	528	1,637	0	12,895	43	18,849	1,500	8,836	8,782	37,967	18,037	56,004
2008 <sup>1</sup>	1,953	3,549	0	239	247	1,524	966	1,141	22,192	0	31,811	170	12,383	15,613	59,977	48,165	108,142
2009 <sup>1</sup>	310	266	0	2,134	113	2,093	530	824	3,899	0	10,169	145	1,950	9,928	22,192	24,009	46,201
2010 <sup>1</sup>	347	1,163	0	0	221	1,547	794	1,077	18,363	90	23,602	0	4,608	16,875	45,085	34,689	79,774
2011 <sup>1</sup>	819	1,932	0	398	258	2,785	1,410	671	23,854	83	32,210	0	4,821	15,915	52,946	39,952	92,898

**AVERAGES:**

1999-2011	1,437	1,537	22	789	1,752	1,134	1,267	712	24,890	17	33,556	146	8,599	13,538	55,839	27,351	83,190
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<sup>1</sup> Preliminary

<sup>2</sup> Pacific Flyway total includes Alaska

07/12/12

**ESTIMATED HARVESTS OF WHITE-FRONTED GEESE (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	0	5,476	316	223	0	899	2,168	983	103,670	0	113,735	0	108,649	32,123	254,507	62,349	316,856
2000	0	11,303	573	549	60	2,481	3,451	2,166	163,970	0	184,553	0	103,913	26,658	315,124	106,738	421,862
2001	227	4,721	212	629	0	1,854	422	1,150	82,015	0	91,230	0	110,802	29,348	231,380	93,194	324,574
2002	86	8,966	187	663	112	264	1,090	830	73,147	0	85,345	0	107,151	28,003	220,499	50,567	271,066
2003 <sup>1</sup>	1,158	9,735	0	2,205	0	435	2,953	1,607	61,924	0	80,017	0	110,611	26,153	216,781	64,542	281,323
2004 <sup>1</sup>	121	5,688	0	1,543	0	1,914	4,280	1,545	37,072	0	52,163	0	86,266	44,078	182,507	64,613	247,120
2005 <sup>1</sup>	0	970	269	1,998	0	183	1,477	946	108,089	0	113,932	87	92,956	45,451	252,426	74,398	326,824
2006 <sup>1</sup>	127	2,336	84	888	25	1,172	2,000	309	76,444	0	83,385	0	142,493	56,610	282,488	50,976	333,464
2007 <sup>1</sup>	142	13,788	249	1,142	0	528	7,366	1,076	87,040	0	111,331	0	176,444	64,586	352,361	69,958	422,319
2008 <sup>1</sup>	868	16,325	0	479	0	1,524	1,691	326	40,033	0	61,246	0	138,097	119,988	319,331	93,862	413,193
2009 <sup>1</sup>	0	12,267	247	434	56	1,932	2,120	1,237	52,244	0	70,537	2,510	71,451	60,746	205,244	54,213	259,457
2010 <sup>1</sup>	173	4,847	99	0	0	5,157	1,588	615	75,121	0	87,600	0	105,249	75,909	268,758	55,982	324,740
2011 <sup>1</sup>	164	19,877	0	1,791	0	2,188	1,567	671	74,744	0	101,002	788	70,836	62,183	234,809	81,042	315,851

<sup>1</sup> Preliminary

<sup>2</sup> Pacific Flyway total includes Alaska

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### ESTIMATED REGULAR SEASON HARVESTS OF CANADA GEESE (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	49,715	66,255	19,028	64,775	2,201	110,727	35,773	109,271	72,395	9,194	539,335	137,900	590,100	314,554	1,581,889	565,242	2,147,131
2000	86,921	98,005	34,764	113,441	1,996	66,949	47,966	90,803	125,837	25,499	692,179	150,300	745,000	338,847	1,926,326	612,043	2,538,369
2001	55,052	72,707	19,221	83,833	1,792	64,721	13,458	126,736	123,859	13,486	574,866	482,337	576,572	267,207	1,900,982	637,016	2,537,998
2002	62,101	80,982	30,314	56,322	1,010	75,862	26,606	91,574	96,286	15,471	536,530	476,787	569,464	243,793	1,826,575	645,664	2,472,239
2003 <sup>1</sup>	92,037	123,866	37,264	104,141	2,723	82,252	35,398	109,067	62,525	23,083	672,355	476,710	814,580	321,130	2,284,776	670,802	2,955,578
2004 <sup>1</sup>	60,401	80,118	27,277	62,272	1,271	76,927	41,230	74,363	43,489	20,421	487,770	410,800	631,320	298,764	1,828,654	626,801	2,455,455
2005 <sup>1</sup>	67,991	99,178	17,887	97,578	1,444	85,243	27,345	57,822	83,145	18,217	555,852	520,600	586,257	314,006	1,976,714	701,379	2,678,093
2006 <sup>1</sup>	64,235	59,566	25,399	56,688	910	82,455	41,736	97,985	62,362	21,163	512,500	437,000	747,050	305,365	2,001,915	652,791	2,654,706
2007 <sup>1</sup>	62,192	59,968	23,876	61,794	4,023	74,622	47,496	60,042	47,066	11,834	452,913	601,243	675,477	287,861	2,017,493	703,857	2,721,350
2008 <sup>1</sup>	85,716	87,067	16,154	83,358	2,350	64,167	31,887	68,441	43,950	22,529	505,618	662,042	739,354	316,303	2,223,317	735,005	2,956,322
2009 <sup>1</sup>	68,099	92,267	25,925	76,421	2,032	67,625	26,848	62,445	54,583	17,052	493,297	612,263	731,196	297,884	2,134,639	711,213	2,845,852
2010 <sup>1</sup>	49,062	66,494	18,162	103,477	1,489	87,419	20,442	53,527	70,113	20,434	490,619	598,001	677,156	274,598	2,040,374	689,741	2,730,115
2011 <sup>1</sup>	31,450	51,900	21,785	68,644	6,719	89,720	26,329	53,423	45,323	14,571	409,864	372,191	621,518	279,651	1,683,224	728,924	2,412,148
<b>AVERAGES:</b>											532,592	456,783	669,619	296,920	1,955,914	667,729	2,623,643

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

### ESTIMATED ALL-SEASON HARVESTS OF CANADA GEESE (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	49,715	67,355	19,028	64,775	2,201	110,727	35,773	146,071	72,395	9,194	577,235	422,900	839,200	338,654	2,177,989	565,242	2,743,231
2000	86,921	98,905	34,764	113,441	1,996	105,649	49,566	123,303	125,837	25,499	675,879	416,900	1,036,800	358,547	2,578,126	612,043	3,190,169
2001	55,052	72,707	19,221	83,833	1,792	116,309	16,048	163,926	123,859	13,486	666,234	692,137	852,872	267,207	2,478,450	637,016	3,115,466
2002	62,101	80,982	30,314	56,322	1,010	109,262	27,906	131,274	96,286	15,471	610,930	709,987	870,364	243,793	2,435,075	645,664	3,080,739
2003 <sup>1</sup>	92,037	123,866	37,264	104,141	2,723	124,452	36,698	154,867	62,525	23,083	761,655	657,910	1,103,880	332,130	2,855,576	670,802	3,526,378
2004 <sup>1</sup>	60,401	80,218	27,277	62,272	1,271	118,427	41,630	96,663	43,489	20,421	552,470	643,800	952,120	305,464	2,453,854	626,801	3,080,655
2005 <sup>1</sup>	67,991	99,178	17,887	100,078	1,444	133,043	29,545	78,822	83,145	18,217	629,352	774,300	928,457	323,406	2,655,514	701,379	3,356,893
2006 <sup>1</sup>	64,235	59,566	25,399	56,988	910	120,355	42,436	129,985	62,362	21,163	583,400	662,500	1,078,650	321,165	2,645,715	652,791	3,298,506
2007 <sup>1</sup>	62,192	59,968	23,876	63,794	4,023	108,922	48,696	87,342	47,066	11,834	517,713	860,743	996,677	301,061	2,676,193	703,857	3,380,050
2008 <sup>1,3</sup>	85,716	87,067	16,154	85,274	2,350	99,091	35,027	94,513	43,950	22,529	571,671	919,976	1,021,696	331,497	2,844,840	735,005	3,579,845
2009 <sup>1,3</sup>	68,099	92,267	25,925	79,026	2,032	101,599	28,084	98,716	54,583	17,052	567,383	854,268	975,895	308,125	2,705,671	711,213	3,416,884
2010 <sup>1,4</sup>	49,062	66,494	18,162	107,108	1,489	88,966	21,831	77,830	70,113	20,434	521,489	796,229	938,413	279,138	2,535,269	689,741	3,225,010
2011 <sup>1</sup>	31,450	51,900	21,785	68,644	6,719	114,189	27,113	93,210	45,323	14,571	474,904	530,630	883,440	296,080	2,185,054	728,924	2,913,978
<b>AVERAGES:</b>											600,024	687,868	959,882	308,174	2,555,948	667,729	3,223,677

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

<sup>3</sup>ND total harvest includes harvest that occurred during the August Management Take season.

<sup>4</sup>ND and SD total harvest includes harvest that occurred during the August Management Take season.

07/12/12

### ESTIMATED REGULAR SEASON LIGHT (SNOW, BLUE, AND ROSS'S) GOOSE HARVESTS (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC <sup>2</sup> FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA										
1999	9,119	12,048	63	25,911	4,842	62,374	5,058	14,746	341,126	0	475,287	54,711	311,621	79,931	921,549	215,266	1,136,815										
2000	7,750	8,164	191	3,477	5,566	31,457	8,784	2,500	317,262	114	385,265	72,257	167,294	45,289	670,105	245,123	915,228										
2001	9,768	4,405	106	5,869	17,916	44,021	5,596	18,214	254,414	0	360,309	77,802	245,496	59,405	743,012	262,054	1,005,066										
2002	10,807	18,222	385	11,678	6,285	20,674	4,251	23,898	171,673	0	267,873	39,295	119,262	62,775	489,205	206,551	695,756										
2003 <sup>1</sup>	16,786	19,263	453	5,513	3,465	24,912	2,109	28,523	145,491	325	246,840	36,105	204,194	59,511	546,690	270,389	817,039										
2004 <sup>1</sup>	9,320	16,481	113	964	3,305	17,860	3,696	29,785	134,031	0	215,555	31,548	172,983	51,680	471,766	197,371	669,137										
2005 <sup>1</sup>	5,998	3,689	54	4,359	2,723	20,076	9,546	21,440	228,651	0	296,536	36,102	223,669	71,805	628,112	192,426	820,538										
2006 <sup>1</sup>	13,429	12,848	0	1,269	2,977	32,173	10,664	25,780	119,360	0	218,500	33,338	150,402	78,107	480,346	297,112	777,458										
2007 <sup>1</sup>	11,528	10,943	83	999	2,333	28,648	6,138	10,581	125,725	43	197,021	52,242	149,638	96,521	495,422	187,212	682,634										
2008 <sup>1</sup>	4,991	12,540	0	1,438	371	32,845	3,382	26,561	122,276	0	204,404	58,922	158,345	102,887	524,558	327,142	851,700										
2009 <sup>1</sup>	3,406	4,267	494	5,174	734	33,168	2,297	18,341	53,804	66	121,751	29,571	67,575	63,568	282,465	179,308	461,773										
2010 <sup>1</sup>	2,428	4,459	0	0	497	36,101	8,336	18,612	106,839	90	177,362	18,293	87,542	81,909	365,106	196,171	561,277										
2011 <sup>1</sup>	8,845	19,876	0	7,362	1,809	31,233	3,291	12,517	116,090	331	201,354	37,592	127,394	80,030	446,370	252,382	698,752										
<b>AVERAGES:</b>											8,783	11,323	149	5,693	4,063	31,965	5,627	19,346	172,057	75	259,081	44,444	168,109	71,801	543,436	232,962	776,398

<sup>1</sup>Preliminary

<sup>2</sup>Pacific Flyway total includes Alaska

**ESTIMATED ALL-SEASON HARVESTS OF SHORT GRASS PRAIRIE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	15,864		1,391	3,574	1,233			26,641	1,391	50,094	
2000	19,603	314	1,910	7,319	484		333	46,522	2,732	79,216	
2001	14,918	944	1,381	6,707	597		575	42,402	1,583	69,106	
2002	14,839	1,735	2,239	2,485	224			24,631	1,521	47,674	
2003 <sup>1</sup>	29,714	207	2,523	4,166	1,683		603	20,441	2,709	62,046	
2004 <sup>1</sup>	19,972		1,754	1,928	170		281	12,833	1,388	38,326	
2005 <sup>1</sup>	27,552	776	754	3,088			158	40,533	2,215	75,076	
2006 <sup>1</sup>	19,131	234	1,003	3,046	74			8,717	1,287	33,491	
2007 <sup>1</sup>	18,927		663	2,569	402		717	10,316	907	34,501	
2008 <sup>1</sup>	12,586		554	7,186	186			16,971	2,453	39,935	
2009 <sup>1</sup>	23,524		123	4,776	508		206	28,851	790	58,779	
2010 <sup>1</sup>	22,364	388	197	4,992	110		154	25,875	2,509	56,590	
2011 <sup>1</sup>	15,725		456	5,173				16,698	1,407	39,460	

<sup>1</sup> Preliminary

**ESTIMATED ALL-SEASON HARVESTS OF TALL GRASS PRAIRIE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	11,500		5,584		47,095	11,563	15,924	37,646		129,312	
2000	18,839		6,953		31,232	12,862	6,498	52,623		129,007	
2001	14,164		7,755		36,839	6,335	17,447	60,256		142,795	
2002	13,593		3,479		18,738	9,266	16,928	51,502		113,506	
2003 <sup>1</sup>	29,413		6,861		22,845	16,872	16,873	17,435		110,299	
2004 <sup>1</sup>	11,668		7,714		21,262	19,842	7,306	14,972		82,763	
2005 <sup>1</sup>	18,244		23,249		18,433	12,955	5,833	38,455		117,167	
2006 <sup>1</sup>	12,147		4,569		15,761	17,774	10,806	30,846		91,903	
2007 <sup>1</sup>	24,512		6,850		12,278	23,325	4,484	28,369		99,817	
2008 <sup>1</sup>	32,650		3,114		12,889	8,938	5,214	8,268		71,073	
2009 <sup>1</sup>	16,800		3,908		15,457	10,951	9,480	18,714		75,309	
2010 <sup>1</sup>	11,826		9,531		17,535	4,962	4,153	32,553		80,559	
2011 <sup>1</sup>	9,938		3,780		17,506	15,045	5,365	17,493		69,128	

<sup>1</sup> Preliminary

**ESTIMATED ALL-SEASON HARVESTS OF LARGE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	32,103	52,570	15,109	54,500	968	57,700	22,765	128,967	2,896	7,440	375,018
2000	63,823	71,902	31,708	94,961	1,452	69,342	34,508	113,138	9,152	21,401	511,387
2001	29,836	52,248	15,717	65,180	1,194	69,855	8,657	141,110	9,485	11,147	404,430
2002	32,251	56,109	22,386	41,165	673	83,486	11,337	107,376	4,478	11,835	371,097
2003 <sup>1</sup>	53,447	88,653	29,953	82,333	792	92,034	11,248	129,960	19,840	16,906	525,166
2004 <sup>1</sup>	36,918	64,904	19,807	44,546	1,102	83,877	11,088	83,878	5,703	18,637	370,460
2005 <sup>1</sup>	38,884	75,111	8,351	70,835	1,444	92,345	11,705	68,260	3,118	16,003	386,056
2006 <sup>1</sup>	22,425	41,813	10,611	43,915	369	85,707	15,552	106,366	4,694	13,637	345,090
2007 <sup>1</sup>	36,858	30,422	6,715	50,091	1,689	83,965	22,507	76,399	3,224	9,500	321,369
2008 <sup>1</sup>	27,993	36,672	4,431	63,477	557	68,047	20,775	74,958	6,092	14,460	317,462
2009 <sup>1</sup>	43,025	73,332	2,839	64,697	1,524	69,234	15,014	78,929	5,458	12,310	366,361
2010 <sup>1</sup>	20,457	47,884	2,073	78,969	1,324	33,523	12,503	68,755	8,347	16,222	290,057
2011 <sup>1</sup>	13,268	34,784	2,053	55,910	4,652	71,219	11,754	79,798	10,337	11,342	295,117

<sup>1</sup> Preliminary

**ESTIMATED ALL-SEASON HARVESTS OF UNKNOWN CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	1,749	3,286	2,529	1,117		5,932	1,445	1,180	5,212	363	22,812
2000	3,495	7,850	1,146	4,208	60	5,074	2,196	3,333	17,541	1,366	46,269
2001	10,299	5,351	2,124	4,192		9,615	1,056	4,793	11,716	757	49,902
2002	15,011	9,544	5,690	9,194	112	7,038	7,304	6,970	15,674	2,116	78,653
2003 <sup>1</sup>	8,876	5,593	4,787	10,782	248	9,573	8,577	7,432	4,810	3,468	64,144
2004 <sup>1</sup>	3,510	3,646	5,716	8,485		13,289	10,699	5,198	9,981	397	60,921
2005 <sup>1</sup>	1,555	5,046	8,782	2,906		22,265	4,886	4,572	1,039		51,052
2006 <sup>1</sup>	22,679	5,373	13,785	5,458	468	18,887	9,109	12,813	18,105	6,240	112,916
2007 <sup>1</sup>	6,404	5,034	16,497	4,281	1,931	12,674	2,864	5,739	5,158	1,425	62,007
2008 <sup>1</sup>	45,136	17,745	11,169	11,498	1,608	18,155	5,314	14,340	12,619	5,616	143,201
2009 <sup>1</sup>	1,548	2,133	22,962	5,645		16,908	2,120	10,098	1,560	3,950	66,922
2010 <sup>1</sup>	6,241	6,397	15,892	13,615	55	37,907	4,366	4,768	3,339	1,703	94,284
2011 <sup>1</sup>	2,457	7,178	19,276	3,780	2,067	25,464	313	8,047	795	1,821	71,199

<sup>1</sup> Preliminary

# **GOOSE AGE RATIOS IN THE U.S. HARVEST**

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**CANADA GOOSE AGE RATIOS (IMM/ADULT)**  
**IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.55	0.60	0.54	0.67	0.59
2000	0.53	0.41	0.50	0.60	0.49
2001	0.58	0.48	0.59	0.56	0.53
2002	0.45	0.40	0.61	0.51	0.50
2003 <sup>1</sup>	0.53	0.56	0.55	0.71	0.56
2004 <sup>1</sup>	0.40	0.46	0.38	0.61	0.43
2005 <sup>1</sup>	0.54	0.62	0.52	0.47	0.54
2006 <sup>1</sup>	0.47	0.53	0.54	0.45	0.51
2007 <sup>1</sup>	0.40	0.40	0.50	0.44	0.44
2008 <sup>1</sup>	0.51	0.59	0.51	0.38	0.52
2009 <sup>1</sup>	0.57	0.37	0.47	0.50	0.46
2010 <sup>1</sup>	0.60	0.63	0.55	0.45	0.57
2011 <sup>1</sup>	0.64	0.34	0.52	0.50	0.49

<sup>1</sup>Preliminary

12-Jul-12

**SNOW GOOSE (LESSER & GREATER) AGE RATIOS (IMM/ADULT)**  
**IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1999 <sup>1</sup>				
2000	2000 <sup>1</sup>				
2001	2001				
2002	2002				
2003 <sup>1</sup>	2003 <sup>1</sup>				
2004 <sup>1</sup>	2004 <sup>1</sup>				
2005 <sup>1</sup>	2005 <sup>1</sup>				
2006 <sup>1</sup>	2006 <sup>1</sup>				
2007 <sup>1</sup>	2007 <sup>1</sup>				
2008 <sup>1</sup>	2008 <sup>1</sup>				
2009 <sup>1</sup>	2009 <sup>1</sup>				
2010 <sup>1</sup>	2010 <sup>1</sup>				
2011 <sup>1</sup>	2011 <sup>1</sup>				

<sup>1</sup>Preliminary

12-Jul-12

**WHITE-FRONTED GOOSE AGE RATIOS (IMM/ADULT)**  
**IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.74	0.86	1.57	0.85	2.64
2000	0.57	0.44	0.80	0.54	1.04
2001	0.46	0.66	0.68	0.58	2.23
2002	0.50	0.49	0.32	0.47	0.50
2003 <sup>1</sup>	1.27	0.82	0.53	0.92	0.98
2004 <sup>1</sup>	0.65	0.44	0.72	0.55	1.92
2005 <sup>1</sup>	0.81	0.58	1.16	0.77	0.72
2006 <sup>1</sup>	1.16	0.91	0.86	0.97	0.69
2007 <sup>1</sup>	0.70	0.31	0.68	0.48	0.66
2008 <sup>1</sup>	0.50	0.35	0.72	0.50	0.22
2009 <sup>1</sup>	0.61	0.49	1.42	0.72	0.39
2010 <sup>1</sup>	0.70	0.46	0.94	0.66	1.26
2011 <sup>1</sup>	0.87	1.06	0.71	0.87	0.54

<sup>1</sup>Preliminary

\*Years without an age ratio estimate had <50 tails in the sample

12-Jul-12

**ROSS'S GOOSE AGE RATIOS (IMM/ADULT)**  
**IN THE ENTIRE SEASON HARVEST**  
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1999				
2000	2000				
2001	2001				
2002	2002				
2003 <sup>1</sup>	2003 <sup>1</sup>				
2004 <sup>1</sup>	2004 <sup>1</sup>				
2005 <sup>1</sup>	2005 <sup>1</sup>				
2006 <sup>1</sup>	2006 <sup>1</sup>				
2007 <sup>1</sup>	2007 <sup>1</sup>				
2008 <sup>1</sup>	2008 <sup>1</sup>				
2009 <sup>1</sup>	2009 <sup>1</sup>				
2010 <sup>1</sup>	2010 <sup>1</sup>				
2011 <sup>1</sup>	2011 <sup>1</sup>				

<sup>1</sup>Preliminary

\*Years without an age ratio estimate had <50 tails in the sample

12-Jul-12

**WEBLESS GAME BIRD  
HARVESTS,  
HUNTER ACTIVITY  
AND  
SUCCESS  
IN THE  
UNITED STATES**

**ESTIMATED MOURNING DOVE HARVEST**  
(Harvest Information Program)

**ESTIMATES OF TOTAL MOURNING DOVE  
HUNTER DAYS AFIELD BY STATE OF HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>	595,600	740,600	861,621	621,500	791,700	422,041	353,534	446,350	519,314
<b>CO</b>	262,000	289,900	263,359	270,300	315,000	288,438	242,354	171,979	178,713
<b>IA</b>									56,778
<b>KS</b>	853,600	689,400	680,370	711,800	725,100	443,742	572,613	511,197	534,804
<b>MN</b>	-	107,000	48,822	50,000	67,400	83,454	61,491	98,943	57,348
<b>MO</b>	732,900	775,900	641,795	709,500	603,300	467,833	294,712	426,005	359,582
<b>MT</b>	19,100	20,900	17,792	14,800	20,900	18,381	12,709	17,421	14,444
<b>NE</b>	354,900	365,900	371,075	249,700	319,600	238,647	277,563	276,411	265,498
<b>NM</b>	154,400	302,800	250,090	226,900	198,700	138,069	170,246	128,022	76,850
<b>ND</b>	77,800	57,500	55,473	56,400	48,700	26,386	39,970	54,166	41,762
<b>OK</b>	515,600	555,300	828,528	704,400	480,000	361,204	378,417	268,700	379,365
<b>SD</b>	199,900	184,100	127,700	103,300	104,000	152,099	105,368	64,330	87,210
<b>TX</b>	3,909,000	5,664,600	5,710,707	5,138,700	5,463,300	4,849,583	4,945,108	4,699,316	5,061,083
<b>WY</b>	39,600	43,700	34,074	29,500	42,600	30,080	20,560	32,099	24,965
<b>CMU</b>	7,714,400	9,807,600	9,891,405	8,886,800	9,180,300	7,519,957	7,474,642	7,194,939	7,657,716
<b>EMU</b>	8,078,500	7,712,000	9,793,000	8,155,400	8,908,400	7,671,758	7,639,194	7,473,535	6,666,900
<b>WMU</b>	2,420,100	2,470,600	2,465,486	2,202,900	2,461,500	2,210,705	2,241,012	2,561,966	2,256,289
<b>U.S.</b>	18,213,200	19,990,200	22,149,889	19,272,400	20,550,000	17,402,421	17,354,848	17,230,440	16,580,904

\*Preliminary

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>	89,000	114,000	147,258	77,500	115,900	76,601	53,815	63,302	63,784
<b>CO</b>	51,200	54,800	48,729	45,700	57,800	60,422	45,407	38,375	44,495
<b>IA</b>									19,043
<b>KS</b>	135,100	119,300	109,500	116,400	119,100	78,530	96,958	93,894	95,802
<b>MN</b>	-	61,100	14,721	24,200	27,600	34,873	24,071	55,334	25,076
<b>MO</b>	124,800	128,800	113,362	129,800	124,400	93,370	58,581	75,178	75,580
<b>MT</b>	4,900	11,300	4,000	3,670	4,000	6,414	4,662	5,863	4,6905
<b>NE</b>	62,900	71,400	64,319	43,000	55,300	48,787	51,760	49,692	49,692
<b>NM</b>	32,900	42,000	41,974	33,900	40,100	26,224	35,652	20,992	24,609
<b>ND</b>	17,300	13,000	11,808	10,800	9,900	9,184	10,826	11,830	10,370
<b>OK</b>	94,000	111,498	108,300	73,100	55,753	51,337	54,206	54,206	54,206
<b>SD</b>	40,400	36,700	25,206	24,700	18,200	27,468	21,671	14,150	16,341
<b>TX</b>	802,800	1,089,200	1,029,986	986,200	1,149,600	974,121	846,164	876,512	958,563
<b>WY</b>	7,400	8,700	6,626	6,500	8,800	5,931	5,782	7,067	5,135

\*Preliminary

**ESTIMATES OF ACTIVE NUMBERS OF MOURNING DOVE  
HUNTERS BY STATE OF HARVEST IN THE CENTRAL  
MANAGEMENT UNIT**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>	1,442,500	1,844,300	1,729,809	1,610,900	1,803,800	1,496,935	1,312,715	1,362,326	1,444,771
<b>CO</b>	1,456,900	1,373,400	1,669,760	1,336,000	1,481,697	1,269,462	1,245,684	1,167,111	1,095,217
<b>IA</b>	459,700	476,200	446,158	458,800	487,200	426,220	429,042	494,752	465,663
<b>KS</b>	3,359,100	3,693,800	3,845,727	3,405,800	3,772,697	3,192,617	2,987,441	3,024,189	3,005,651

\*Preliminary

**AVERAGE SEASONAL MOURNING DOVE  
BAG PER HUNTER BY STATE OF HARVEST  
IN THE CENTRAL MANAGEMENT UNIT**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>	18.2	19.5	19.8	21.4	18.1	15.8	18.7	20.5	20.5
<b>CO</b>	13.7	15.4	14.3	13.6	14.5	12.4	11.9	10.8	11.7
<b>IA</b>									9.7
<b>KS</b>	22.4	19.3	21.0	20.1	20	16.6	19.5	18.1	16.3
<b>MN</b>	7.8	8.2	8.6	8.7	7.4	9.1	9.9	6.1	6.1
<b>MO</b>	18.1	18.6	16.0	15.9	14.2	13.7	14.5	11.4	11.4
<b>MT</b>	11.7	7.9	8.7	8.5	12.3	8.8	5.1	10.7	6.7
<b>NE</b>	15.7	19.2	20.8	16.7	17.6	17.4	17.1	17.1	17.1
<b>NM</b>	32.7	30.7	26.7	31.8	23.1	22.0	21.9	21.9	21.9
<b>ND</b>	13.6	12.9	14.3	14.3	14.3	14.3	14.3	14.1	11.2
<b>OK</b>	25.7	20.5	24.0	19.5	19.5	18.7	20.4	20.4	22.1
<b>SD</b>	18.3	18.4	17.9	16.2	17.2	20.9	16.2	16.2	14.0
<b>TX</b>	253,241	244,595	236,236	222,167	19.8	17.9	20.9	19.2	19.2
<b>WY</b>	2,671	2,671	13.1	13.6	12.9	10.6	11.9	8.8	9.3

\*Preliminary

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**ESTIMATED WHITE-WINGED DOVE HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>									
<b>CO</b>	2,900	900	3,300	4,813	15,949	2,663	2,004		
<b>KS</b>	1,000	800	8,800	1,324	4,137	4,877	4,109		
<b>MN</b>					2,299	5,780	1,800	900	3,100
<b>MO</b>	1,000	1,900	2,500	1,000	2,659	3,255	4,404	1,328	4,100
<b>MT</b>								4,300	6,200
<b>NE</b>								5,000	1,200
<b>NM</b>	40,400	46,500	52,100	200	800	900	184	3,808	414
<b>ND</b>								29,475	15,000
<b>OK</b>	4,700	3,500	8,000	5,500	17,100	5,241	5,518	4,610	4,261
<b>SD</b>									1,000
<b>TX</b>	778,200	1,066,300	1,095,100	974,500	1,522,100	1,314,921	1,259,255	1,436,829	1,551,987
<b>WY</b>									
<b>CMU</b>	825,300	1,120,600	1,162,500	1,050,900	1,618,400	1,378,212	1,361,258	1,485,501	1,605,516
<b>EMU</b>	12,900	4,700	12,400	46,800	53,400	60,003	88,249	29,241	47,759
<b>WWMU</b>	159,900	171,400	174,000	164,300	196,300	179,894	192,735	165,176	198,333
<b>U.S.</b>	998,100	1,296,700	1,348,900	1,262,000	1,868,100	1,618,109	1,642,243	1,678,918	1,851,609

\* Preliminary

**ESTIMATES OF TOTAL WHITE-WINGED DOVE HUNTER DAYS AFIELD BY STATE OF HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>									
<b>CO</b>	2,900	900	3,300	4,813	15,949	2,663	2,004		
<b>KS</b>	1,000	800	8,800	1,324	4,137	4,877	4,109		
<b>MN</b>					2,299	5,780	1,800	900	3,100
<b>MO</b>	1,000	1,900	2,500	1,000	2,659	3,255	4,404	1,328	4,100
<b>MT</b>								4,300	6,200
<b>NE</b>								5,000	1,200
<b>NM</b>	40,400	46,500	52,100	200	800	900	184	3,808	414
<b>ND</b>								64,527	29,475
<b>OK</b>	4,700	3,500	8,000	5,500	17,100	5,241	5,518	4,610	4,261
<b>SD</b>									1,000
<b>TX</b>	778,200	1,066,300	1,095,100	974,500	1,522,100	1,314,921	1,259,255	1,436,829	1,551,987
<b>WY</b>									
<b>CMU</b>	825,300	1,120,600	1,162,500	1,050,900	1,618,400	1,378,212	1,361,258	1,485,501	1,605,516
<b>EMU</b>	12,900	4,700	12,400	46,800	53,400	60,003	88,249	29,241	47,759
<b>WWMU</b>	159,900	171,400	174,000	164,300	196,300	179,894	192,735	165,176	198,333
<b>U.S.</b>	998,100	1,296,700	1,348,900	1,262,000	1,868,100	1,618,109	1,642,243	1,678,918	1,851,609

\* Preliminary

**ESTIMATES OF ACTIVE NUMBERS OF WHITE-WINGED DOVE HUNTERS BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>									
<b>CO</b>	1,000	1,100	2,300	3,286	2,078	616	1,113		
<b>KS</b>	400	300	1,800	1,306	2,493	1,998	1,343		
<b>MN</b>					1,804	1,124	1,547		
<b>MO</b>	1,800	900	1,200	700	1,600	1,892	2,317		
<b>MT</b>								0.6	
<b>NE</b>								1,733	
<b>NM</b>	3,300	3,400	4,000	100	200	92	790		
<b>ND</b>								3,174	
<b>OK</b>	300	700	2,200	1,900	2,900	2,104	1,768		
<b>SD</b>								3,011	
<b>TX</b>	77,200	106,400	109,300	105,300	133,200	134,888	109,728	129,213	119,769
<b>WY</b>									

\* Preliminary

**AVERAGE SEASONAL WHITE-WINGED DOVE BAG PER HUNTER BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AR</b>									
<b>CO</b>	1,000	1,100	2,300	3,286	2,078	616	1,113		
<b>KS</b>	400	300	1,800	1,306	2,493	1,998	1,343		
<b>MN</b>					1,804	1,124	1,547		
<b>MO</b>	1,800	900	1,200	700	1,600	1,892	2,317		
<b>MT</b>								0.6	
<b>NE</b>								1,733	
<b>NM</b>	3,300	3,400	4,000	100	200	92	790		
<b>ND</b>								3,174	
<b>OK</b>	300	700	2,200	1,900	2,900	2,104	1,768		
<b>SD</b>								3,011	
<b>TX</b>	77,200	106,400	109,300	105,300	133,200	134,888	109,728	129,213	119,769
<b>WY</b>									

\* Preliminary

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**ESTIMATED BAND-TAILED PIGEON HARVEST**  
(Harvest Information Program)

**ESTIMATES OF TOTAL BAND-TAILED PIGEON  
HUNTER DAYS AFIELD BY STATE OF HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
AZ	1,400	1,400	2,200	500	1,000	1,614	2,339	671	952
CO	900	500	100	600	2,523	1,396	1,457	298	2,100
NM	400	700	300	100	2,800	582	1,270	2,661	466
UT	100	200	100	400	200	-	223	93	600
<b>Four Corners</b>	<b>2,800</b>	<b>2,800</b>	<b>2,700</b>	<b>1,600</b>	<b>4,900</b>	<b>4,719</b>	<b>5,005</b>	<b>5,012</b>	<b>1,809</b>
<b>Pacific Coast</b>	<b>14,400</b>	<b>17,900</b>	<b>13,500</b>	<b>14,900</b>	<b>12,700</b>	<b>30,151</b>	<b>22,638</b>	<b>18,384</b>	<b>11,933</b>
<b>U.S.</b>	<b>17,200</b>	<b>20,700</b>	<b>16,200</b>	<b>16,500</b>	<b>17,600</b>	<b>34,870</b>	<b>27,643</b>	<b>23,396</b>	<b>13,742</b>

\*Preliminary

**ESTIMATES OF ACTIVE NUMBERS OF BAND-TAILED PIGEON  
HUNTERS BY STATE OF HARVEST IN THE FOUR CORNERS  
POPULATION**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
AZ	1,500	900	800	600	2,100	1,288	1,322	1,770	538
CO	400	300	200	900	1,400	2,324	2,390	1,068	210
NM	400	100	100	100	800	550	500	931	257
UT	300	<50	100	200	300	315	198	335	155

\*Preliminary

**AVERAGE SEASONAL BAND-TAILED PIGEON  
BAG PER HUNTER BY STATE OF HARVEST  
IN THE FOUR CORNERS POPULATION**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
AZ	1.0	1.0	1.5	2.6	0.9	0.5	1.3	1.8	0.4
CO	2.3	1.6	0.8	0.7	0.6	1.1	0.6	1.4	1.4
NM	1.1	4.9	3.2	0.4	3.5	1.1	2.5	2.9	1.8
UT	0.5	3.8	1.5	2.5	0.6	0.0	0.0	0.7	0.6

\*Preliminary

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**ESTIMATES OF TOTAL BAND-TAILED PIGEON  
HUNTER DAYS AFIELD BY STATE OF HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
AZ	3,700	2,300	1,600	1,100	5,000	3,316	4,146	5,819	944
CO	2,100	700	300	1,700	3,800	6,080	6,127	3,895	652
NM	1,400	300	400	300	3,600	2,140	2,343	3,195	851
UT	600	100	200	200	400	677	593	670	340
<b>Four Corners</b>	<b>7,800</b>	<b>3,400</b>	<b>2,500</b>	<b>3,300</b>	<b>12,800</b>	<b>12,213</b>	<b>13,209</b>	<b>13,578</b>	<b>2,787</b>
<b>Pacific Coast</b>	<b>18,200</b>	<b>13,900</b>	<b>11,000</b>	<b>15,400</b>	<b>13,500</b>	<b>31,284</b>	<b>24,384</b>	<b>13,679</b>	<b>12,769</b>
<b>U.S.</b>	<b>26,000</b>	<b>17,300</b>	<b>13,500</b>	<b>18,700</b>	<b>26,300</b>	<b>43,498</b>	<b>37,593</b>	<b>27,257</b>	<b>15,556</b>

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**ESTIMATED AMERICAN WOODCOCK HARVEST**  
(Harvest Information Program)

**ESTIMATES OF TOTAL AMERICAN WOODCOCK HUNTER DAYS AFIELD BY STATE OF HARVEST**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AL</b>	4,200	2,200	100	300	700	2,292	5,946	599	1,593
<b>AR</b>	600	2,800	1,500	2,900	10,500	3,100	6,616	248	615
<b>IL</b>	2,200	1,900	3,900	2,200	3,800	4,252	5,345	878	3,718
<b>IN</b>	1,800	7,900	4,400	2,400	1,200	832	1,658	3,023	1,763
<b>IA</b>	900	1,700	1,000	1,500	100	1,597	673	1,660	209
<b>KS</b>	200	100	-	100	<50	1,983	27	0	0
<b>KY</b>	2,600	1,900	800	300	300	1,504	0	6,790	181
<b>LA</b>	10,400	20,200	18,100	19,000	21,700	13,309	24,693	32,989	24,359
<b>MI</b>	121,500	102,500	106,800	116,200	86,800	90,934	93,229	106,885	159,000
<b>MN</b>	29,900	38,500	42,200	38,700	34,400	19,871	15,998	34,835	44,242
<b>MS</b>	400	900	-	600	600	382	1,281	1,373	446
<b>MO</b>	2,100	900	1,300	400	900	2,623	873	3,031	895
<b>NE</b>	100	<50	-	100	200	-	90	61	0
<b>OH</b>	2,500	4,600	6,900	4,100	2,600	2,307	1,160	1,715	2,306
<b>OK</b>	2,800	200	-	<50	-	21	162	3,108	17
<b>TN</b>	1,000	400	400	800	700	800	615	424	5,071
<b>TX</b>	-	800	-	1,500	4,675	-	2,249	1,295	578
<b>WI</b>	30,300	47,300	37,600	43,000	48,000	35,989	29,240	42,282	42,570
<b>CMR</b>	213,500	234,800	225,000	232,600	214,200	174,262	175,121	233,140	231,673
<b>EMR</b>	89,200	135,400	72,200	79,300	75,900	104,701	63,274	99,798	77,049
<b>U.S.</b>	302,700	370,200	297,200	311,900	290,000	278,963	238,395	332,938	308,722

\* Preliminary

**ESTIMATES OF ACTIVE NUMBERS OF AMERICAN WOODCOCK HUNTERS BY STATE OF HARVEST IN THE CENTRAL REGION**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AL</b>	4,000	600	<50	200	100	1,016	2,084	1,202	2,463
<b>AR</b>	1,800	3,600	3,800	3,000	2,600	5,063	3,012	124	205
<b>IL</b>	2,400	1,200	2,100	2,000	3,100	2,124	1,846	843	2,874
<b>IN</b>	700	1,100	2,100	1,000	1,800	943	1,095	1,101	2,056
<b>IA</b>	1,500	1,800	800	2,100	1,100	1,576	856	3,169	1,036
<b>KS</b>	100	<50	-	300	600	567	9	326	14
<b>KY</b>	1,500	900	1,000	100	800	2,544	7	2,865	45
<b>LA</b>	1,600	3,600	5,500	4,000	4,800	5,985	4,319	9,110	6,572
<b>MI</b>	35,100	31,200	28,000	30,000	34,633	28,400	36,411	31,064	28,422
<b>MN</b>	14,300	14,500	12,000	14,900	15,300	8,672	9,729	13,888	17,028
<b>MS</b>	2,000	1,100	-	1,200	600	550	1,046	1,006	137
<b>MO</b>	1,700	2,500	1,200	1,500	200	2,757	179	2,614	186
<b>NE</b>	400	<50	300	600	500	882	36	640	0
<b>OH</b>	3,400	2,600	4,700	2,200	2,600	2,909	1,641	1,828	3,119
<b>OK</b>	1,300	500	-	500	-	659	17	1,036	26
<b>TN</b>	100	200	200	100	100	98	247	1,640	1,582
<b>TX</b>	5,900	6,200	6,200	-	600	4,675	-	10,092	236
<b>WI</b>	16,100	15,700	15,600	19,400	17,300	14,231	19,425	14,591	15,226

\* Preliminary

**AVERAGE SEASONAL AMERICAN WOODCOCK BAG PER HUNTER BY STATE OF HARVEST IN THE CENTRAL REGION**  
(Harvest Information Program)

	2003 *	2004 *	2005 *	2006 *	2007 *	2008 *	2009 *	2010 *	2011 *
<b>AL</b>	14,300	1,000	200	200	400	700	3,099	6,539	7,473
<b>AR</b>	4,600	4,600	20,100	9,200	6,800	9,300	24,179	8,077	207
<b>IL</b>	12,200	12,200	3,500	5,300	8,300	7,600	6,098	6,208	1,220
<b>IN</b>	6,000	6,000	7,400	4,400	3,300	4,600	3,322	3,984	3,941
<b>IA</b>	4,200	4,200	2,200	4,300	4,300	4,600	1,781	7,431	4,139
<b>KS</b>	600	600	200	300	300	3,100	2,833	31	29
<b>KY</b>	2,000	1,900	0	0	0	0	0	6,732	181
<b>LA</b>	10,200	18,100	19,000	21,700	13,309	24,693	32,989	24,359	18,430
<b>MI</b>	151,200	151,200	155,300	158,900	160,200	60,200	60,200	146,177	143,986
<b>MN</b>	60,200	60,200	60,200	60,200	60,200	60,200	60,200	38,267	36,937
<b>MS</b>	3,400	3,400	3,700	5,000	3,800	3,800	3,800	3,722	5,531
<b>MO</b>	8,000	8,000	9,000	9,000	9,000	9,000	9,000	11,79	6,039
<b>NE</b>	900	900	100	300	700	13,800	4,408	72	0
<b>OH</b>	18,200	15,800	9,800	9,800	9,800	9,300	10,310	7,249	10,243
<b>OK</b>	15,400	2,800	-	600	600	-	8,352	81	170
<b>TN</b>	1,200	1,700	500	800	800	800	400	397	1,025
<b>TX</b>	6,000	6,000	6,300	6,300	6,300	7,300	9,350	-	25,473
<b>WI</b>	65,600	61,100	73,100	72,400	79,100	65,433	77,118	65,744	69,039

\* Preliminary  
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# **WATERFOWL POPULATION SURVEYS**

*D.E. SHARP S:\WKFILES\DATABOOK\POPSUR.123*

# RESULTS OF 2012 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY<sup>1</sup>

January 2012 Mid-winter Waterfowl Survey

State	CANADA GEESE						LIGHT GEESE			W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C	
Montana	161,700	8,510	19,387	101,575	30,588	170,410	400	170,210	17	19	170,227
No. Dakota								190,197		1,896	190,216
So. Dakota								306,625		1,058,853	308,521
Wyoming	38,762	3,738	1,200	4,441		177,757	9,111	51,611	17		51,628
Nebraska	1,623							185,021	33	30,093	215,182
Colorado	131,080	93,968						225,048	51,409		276,457
Kansas								65,385		183,161	258,456
N. Mexico	6,271	15,671	7,952	3,755	27,173	224	22,166	65,650		106,920	87,816
Oklahoma								255,663			364,106
Texas <sup>3</sup>								237,029	88,205	294,338	686,916

<sup>1</sup>In TX, SGP and TGP based on cruise surveys. Traditional Mid Dec. coastal cruise count completed for MC Light/WFG geese.

## Central Flyway Goose Population Survey Results<sup>2</sup>

Year	CANADA GEESE						LIGHT GEESE			W-F	TOTAL	
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2012	339,436	292,795	450,786	34,343	555,355	9,111	27,129	1,708,955	205,331	616,427	78,812	2,609,525
2011	273,025	309,589	427,063	675	499,029	16,418	14,547	1,540,346	196,013	1,058,853	128,171	2,923,383
2010	239,855	290,734	417,044	9,500	462,794	10,046	15,790	1,445,763	238,084	618,794	161,119	2,463,760
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
2008	269,289	212,421	402,718	50	689,524	9,188	21,789	1,584,979	188,515	627,426	82,936	2,483,856
2007	180,215	190,531	680,301	43,700	445,959	19,512	37,413	1,597,631	170,642	1,076,557	243,081	3,087,911
2006	247,265	234,737	499,801	2,160	444,410	6,883	13,435	1,448,691	140,587	808,508	304,093	2,701,879
2005	207,401	177,195	400,766	50,000	415,131	15,849	5,175	1,271,517	142,974	877,917	147,783	2,440,191
2004	215,586	203,586	458,680	26,000	622,100	13,228	69,595	1,608,775	135,373	726,999	79,389	2,550,536
2003	205,939	156,661	611,842	40,500	561,049	5,119	24,907	1,606,017	105,900	826,981	213,343	2,752,241
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,875	675,453	260,849	2,661,532
2001	257,929	164,084	149,090	900	677,729	13,327	18,329	1,281,388	105,754	751,928	141,189	2,280,259
2000	270,730	199,493	295,540	13,050	599,292	9,801	11,860	1,399,766	137,535	1,057,042	145,219	2,739,562
1999	119,460	403,197	548,206	45,000	467,137	52,554	1,640,852	236,365	1,114,384	200,391	3,191,992	
1997-98	190,985	339,552	331,863	1,200	482,290		44,947	1,390,837	103,522	1,058,685	356,531	2,909,575
1996-97	148,527	406,838	262,864	0	453,358		39,505	1,311,092	127,172	1,208,606	215,254	2,862,124
1995-96	167,524	414,829	263,996	20,800	403,318	66,445	1,336,912	93,054	835,565	154,519	2,420,050	
1994-95	173,752	481,951	244,988	27,500	352,495		35,520	1,316,206	80,127	1,203,360	194,845	2,794,538
1993-94	164,334	312,855	224,200	1,800	272,487	5,298	41,916	1,017,592	84,874	1,015,169	188,878	2,306,513
1992-93	117,294	270,495	235,328	26,600	306,029		60,622	1,228,368	61,445	895,951	158,625	2,128,089
1991-92	136,950	558,756	276,329	0	305,861		47,624	1,325,520	87,885	908,373	85,881	2,407,656
1990-91	116,643	512,162	305,117	13,500	328,710		372,398	1,648,530	104,624	799,880	155,211	2,708,245
1989-90	101,840	375,283	136,091	11,000	216,034		329,779	1,170,027	38,686	661,302	90,830	1,960,845
1988-89	99,934	284,168	215,799	0	245,891		375,874	1,221,666	67,637	598,132	103,073	1,990,508
1987-88	65,512	147,322	306,735	0	272,050		224,470	1,016,089	46,217	735,922	90,626	1,888,854
1986-87	117,409	193,318	159,007	0	174,355		382,332	1,026,421	63,545	900,437	194,530	2,184,933
1985-86	68,792	180,824	185,360	0	160,640		307,919	783,429	96,591	837,611	92,727	1,810,358
1984-85	76,111	179,120	197,240	0	173,394		786,394	786,394	62,905	980,220	155,705	1,985,335
1983-84	39,779	143,382	260,050	0	91,450		51,775	587,036	43,038	905,538	140,697	1,676,309

<sup>1</sup>Mid-December Goose Surveys were discontinued after December, 1997.

<sup>2</sup>Yearly totals from 1983-84 to 1997-98 reflect Mid-December counts (when available) for TGP, EPP, and WP/GP Canada geese, W-CF and M-C light geese, and W-F geese; totals for H-line and SGP populations reflect Mid-winter Survey data. Counts from these time periods were designated as official counts by respective Management Plans.

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**MID-CONTINENT GREATER WHITE-FRONTED GOOSE POPULATION STATUS, OBJECTIVES,  
AND REGULATORY THRESHOLDS**

YEAR	FALL SURVEY <sup>1</sup>	WINTER SURVEY <sup>2</sup>			
		MISSISSIPPI FLYWAY	CENTRAL FLYWAY	MEXICO	TOTAL
1969/70		50,600	22,070	18,800	91,470
1970/71		39,300	21,144		60,444
1971/72		45,800	32,142		77,942
1972/73		43,000	29,665		72,665
1973/74		43,200	49,463		92,663
1974/75		40,400	39,510	46,100	126,010
1975/76		53,400	54,800		108,200
1976/77		50,400	29,575	23,300	103,275
1977/78		53,100	140,605	43,900	237,605
1978/79		49,300	69,005	59,700	178,005
1979/80		59,000	99,450	56,500	214,950
1980/81		67,500	110,950	34,400	212,850
1981/82		65,600	155,850	49,200	270,650
1982/83		62,000	110,898		172,898
1983/84		70,300	140,697		210,997
1984/85		81,300	155,705	38,470	275,475
1985/86		78,600	92,700		171,300
1986/87		71,500	194,525		266,025
1987/88		76,700	90,673	28,325	195,698
1988/89		116,500	103,073		219,573
1989/90		103,300	90,830		194,130
1990/91		135,700	155,211	33,870	324,781
1991/92		172,900	85,881		258,781
1992/93	622,948	99,240	158,625		257,865
1993/94	676,344	154,340	188,878	23,375	366,593
1994/95	727,295	134,421	194,845		329,266
1995/96	1,129,378	145,075	154,519		299,594
1996/97	742,506	106,570	215,254	14,837	336,661
1997/98	622,206	195,593	356,531		552,124
1998/99	1,058,256	118,945	200,391		319,336
1999/00	963,090	92,274	145,219	37,334	274,827
2000/01	1,067,605	104,487	141,189		245,676
2001/02 <sup>3</sup>	712,309	119,987	260,849		380,836
2002/03	680,200	113,844	213,343	8,321	335,508
2003/04	528,200	161,159	79,389		240,548
2004/05	644,300	137,006	147,783		284,789
2005/06	522,812	158,475	304,093	13,604	476,172
2006/07	751,295	236,651	243,081		479,732
2007/08	764,259	244,766	82,936		327,702
2008/09	751,723	211,754	103,172	NS	314,926
2009/10	583,216	276,465	161,119		437,584
2010/11	709,836	246,362	128,171		374,533
2011/12	681,697	392,711	78,812		471,523
<b>3-YEAR AVERAGES:</b>					
1984/85 - 86/87		77,133	147,643	38,470	263,247
1985/86 - 87/88		75,600	125,966	28,325	229,891
1986/87 - 88/89		88,233	129,424	28,325	245,982
1987/88 - 89/90		98,833	94,859	28,325	222,017
1988/89 - 90/91		118,500	116,371	33,870	268,741
1989/90 - 91/92		137,300	110,641	33,870	281,811
1990/91 - 92/93		135,947	133,239	33,870	303,056
1991/92 - 93/94		142,160	144,461	23,375	309,996
1992/93 - 94/95	675,529	129,334	180,783	23,375	333,491
1993/94 - 95/96	844,339	144,612	179,414	23,375	347,401
1994/95 - 96/97	866,393	128,689	188,206	14,837	331,732
1995/96 - 97/98	831,363	149,079	242,101	14,837	406,018
1996/97 - 98/99	807,656	140,369	257,392	14,837	412,598
1997/98 - 99/2000	881,184	135,604	234,047	37,334	382,096
1998/99 - 2000/01	1,029,650	105,235	162,266	37,334	279,946
1999/00 - 2001/02	914,335	105,583	182,419	37,334	300,446
2000/01-2002/03	820,038	112,773	205,127	8,321	320,673
2001/02 - 2003/04	640,236	131,663	184,527	8,321	318,964
2002/03 - 2004/05	617,567	137,336	146,838	8,321	286,948
2003/04 - 2005/06	565,104	152,213	177,088	13,604	333,836
2004/05 - 2006/07	639,469	177,377	231,652	13,604	413,564
2005/06 - 2007/08	679,455	213,297	210,037	13,604	427,869
2006/07 - 2008/09	755,759	231,057	143,063	13,604	374,120
2007/08 - 2009/10	699,733	244,328	115,742	13,604	360,071
2008/09 - 2010/11	681,592	244,860	130,821	13,604	375,681
2009/10 - 2011/12	658,250	305,179	122,701	13,604	427,880
<b>POPULATION OBJECTIVES:</b>					
600,000 (3-yr ave.)					
<b>REGULATORY THRESHOLDS:</b>					
LOWER	500,000				
UPPER	800,000				

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<sup>1</sup> Since 1997, Mid-continent white-fronted geese have been considered one population, officially surveyed during Fall (September) in Saskatchewan and Alberta.

<sup>2</sup> Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83 we used the most recent Mexico count. Mexico data entries include white-fronts counted in the Interior Highlands (traditional areas) and East Coast Surveys.

In 2003, no survey conducted on East Coast.

Column entries reflect official December surveys (when available) from 1969/70 to 1997/98.

Subsequent entries reflect January surveys.

<sup>3</sup> In TX, traditional Mid Dec. cruise count not completed, WFG geese based on transect in Jan.

CENTRAL FLYWAY CANADA GOOSE POPULATION STATUS, OBJECTIVES, AND REGULATORY THRESHOLDS

YR	TALL GRASS PRAIRIE			SHORT GRASS PRAIRIE <sup>2</sup>	HI-LINE <sup>2</sup>	WESTERN PRAIRIE/ GR. PLAINS <sup>3</sup>	EASTERN PRAIRIE			
	C. FLYWAY <sup>1</sup>	M. FLYWAY <sup>1</sup>	MEXICO <sup>2,4</sup>				C. FLYWAY <sup>1</sup>	M. FLYWAY <sup>1</sup>	TOTAL	
1969/70				151,200	44,200			106,600	106,600	
1970/71	131,100	2,100		133,200	148,500	40,500		126,300	126,300	
1971/72	159,600	1,300		160,900	160,900	31,400		157,400	157,400	
1972/73	147,200	1,200		148,400	259,400	35,600		181,400	181,400	
1973/74	158,500	2,000		160,500	153,600	24,500		205,800	205,800	
1974/75	125,600	2,000	5,900	133,500	123,700	41,200		197,100	197,100	
1975/76	201,500	2,000	200	203,700	242,500	55,600		204,400	204,400	
1976/77	167,900	1,900	1,500	171,300	210,000	67,600		254,200	254,200	
1977/78	211,300	3,100	1,100	215,500	134,000	65,100		270,200	270,200	
1978/79	180,500	4,900	2,200	187,600	163,700	33,800		207,200	207,200	
1979/80	155,200	5,700	5,000	165,900	213,000	67,300		171,800	171,800	
1980/81	244,900	3,500	9,300	257,700	168,200	94,400		150,900	150,900	
1981/82	268,600	12,000	4,100	284,700	156,000	81,900	175,000	145,300	145,300	
1982/83	165,500	6,300		171,800	173,200	75,900	242,000	210,400	210,400	
1983/84	260,700	4,200		264,900	143,500	39,500	150,000	162,700	162,700	
1984/85	197,300	8,100	1,600	207,000	179,100	76,400	230,000	167,600	167,600	
1985/86	189,400	8,800		198,200	181,000	69,800	115,000	169,000	169,000	
1986/87	159,000	4,200		163,200	190,900	98,100	324,000	182,700	182,700	
1987/88	306,100	8,300	1,400	315,800	139,100	66,800	272,100	228,400	228,400	
1988/89	213,000	11,200		224,200	284,800	100,100	330,300	184,500	184,500	
1989/90	146,500	12,515		159,015	378,100	105,900	271,000	324,900	324,900	
1990/91	305,100	10,237	200	315,537	508,500	116,600	390,000	218,400	218,400	
1991/92	276,300	4,065		280,365	620,200	140,500	341,900	(51,000)	189,352	189,400
1992/93	235,328	3,398		238,726	328,194	118,459	318,029	26,600	146,369	172,969
1993/94	224,200	12,555	0	236,755	434,113	164,334	272,487	1,800	116,218	118,018
1994/95	244,988	2,819		247,807	697,781	174,394	352,495	27,500	233,773	261,273
1995/96	263,996	6,314		270,310	559,940	167,524	403,318	20,800	255,700	276,500
1996/97	262,864	9,424	0	272,288	460,721	148,527	453,358	0	67,255	67,255
1997/98	331,813	3,438		335,251	440,570	190,985	482,290	5,000	119,564	124,564
1998/99 <sup>3</sup>	548,206	NA		548,206	403,197	119,460	467,162	45,000	NA	45,000
2000	295,662	NA	0	295,662	200,021	270,730	594,692	17,650	NA	17,650
2001	149,090	NA		149,090	164,084	257,929	682,738	900	NA	900
2002 <sup>5</sup>	504,708	NA		504,708	160,873	217,145	710,260	8,100	NA	8,100
2003 <sup>5</sup>	611,842	NA	NA	611,842	156,661	205,939	561,049	40,500	NA	40,500
2004 <sup>5</sup>	458,680	NA	NA	458,680	203,586	215,586	622,100	26,000	NA	26,000
2005 <sup>5</sup>	400,766	NA	NA	400,766	177,195	207,401	415,131	50,000	NA	50,000
2006 <sup>5</sup>	499,801	NA	NA	499,801	234,737	247,265	444,410	2,160	NA	2,160
2007 <sup>5</sup>	680,301	NA	NA	680,301	190,531	180,215	445,959	43,700	NA	43,700
2008 <sup>5</sup>	402,718	NA	NA	402,718	212,421	269,289	669,524	50	NA	50
2009 <sup>5</sup>	309,909	NA	NA	309,909	220,284	223,375	627,977	20,900	NA	20,900
2010 <sup>5</sup>	417,044	NA	NA	417,044	290,734	239,855	462,794	9,500	NA	9,500
2011 <sup>5</sup>	427,063	NA	NA	427,063	309,589	273,025	499,029	675	NA	675
2012 <sup>5</sup>	450,786	NA	NA	450,786	292,795	339,436	555,355	34,343	NA	34,343
3-YEAR AVERAGES:										
1978/79 - 80/81	193,533	4,700	5,500	203,733	181,633	65,167		176,633	176,633	
1979/80 - 81/82	222,900	7,067	6,133	236,100	179,067	81,200	175,000	156,000	156,000	
1980/81 - 82/83	226,333	7,267	4,100	238,067	165,800	84,067	208,500	168,867	168,867	
1981/82 - 83/84	231,600	7,500	4,100	240,467	157,567	65,767	189,000	172,800	172,800	
1982/83 - 84/85	207,833	6,200	1,600	214,567	165,267	63,933	207,333	180,233	180,233	
1983/84 - 85/86	215,800	7,033	1,600	223,367	167,867	61,900	165,000	166,433	166,433	
1984/85 - 86/87	181,900	7,033	1,600	189,467	183,667	81,433	223,000	173,100	173,100	
1985/86 - 87/88	218,167	7,100	1,400	225,733	170,333	78,233	237,033	193,367	193,367	
1986/87 - 88/89	226,033	7,900	1,400	234,400	204,933	88,333	308,800	198,533	198,533	
1987/88 - 89/90	221,867	10,672	1,400	233,005	267,333	90,933	291,133	245,933	245,933	
1988/89 - 90/91	221,533	11,317	200	232,917	390,467	107,533	330,433	242,600	242,600	
1989/90 - 91/92	242,633	8,939	200	251,639	502,267	121,000	334,300	244,217	244,233	
1990/91 - 92/93	272,243	5,900	200	278,209	485,631	125,186	349,976	26,600	184,707	193,590
1991/92 - 93/94	245,276	6,673	0	251,949	460,836	141,098	310,805	14,200	150,646	160,129
1992/93 - 94/95	234,839	6,257	0	241,096	486,696	152,396	314,337	18,633	165,453	184,087
1993/94 - 95/96	244,395	7,229	0	251,624	563,945	168,751	342,767	16,700	201,897	218,597
1994/95 - 96/97	257,283	6,186	0	263,468	572,814	163,482	403,057	16,100	185,576	201,676
1995/96 - 97/98	286,224	6,392	0	292,616	487,077	169,012	446,322	8,600	147,506	156,106
1996/97 - 98/99	380,961	NA	0	385,248	434,829	152,991	467,603	16,667	NA	78,940
1997/98 - 2000	391,894	NA	0	393,040	347,929	193,725	514,715	22,550	NA	62,405
1998/99 - 2001	330,986	NA	0	330,986	255,767	216,040	581,531	21,183	NA	21,183
2000 - 2002	316,487	NA	0	316,487	174,993	248,601	662,563	8,883	NA	8,883
2001 - 2003	421,880	NA	0	421,880	160,539	227,004	651,349	16,500	NA	16,500
2002-2004	525,077	NA	0	525,077	173,707	212,890	631,136	24,867	NA	24,867
2003-2005	490,429	NA	NA	490,429	179,147	209,642	532,760	38,833	NA	38,833
2004-2006	453,082	NA	NA	453,082	205,173	223,417	493,880	26,053	NA	26,053
2005-2007	526,956	NA	NA	526,956	200,821	211,627	435,167	31,953	NA	31,953
2006-2008	527,607	NA	NA	527,607	212,563	232,256	519,964	15,303	NA	15,303
2007-2009	464,309	NA	NA	464,309	207,745	224,293	581,153	21,550	NA	21,550
2008-2010	376,557	NA	NA	376,557	241,146	244,173	586,765	10,150	NA	10,150
2009-2011	384,672	NA	NA	384,672	273,536	245,418	529,933	10,358	NA	10,358
2010-2012	431,631	NA	NA	431,631	297,706	284,105	505,726	14,839	NA	14,839
POPULATION OBJECTIVES:										
				250,000	150,000	80,000	17,000 pr(WP) 25,000 pr(GP)		SPRING	
								300,000		
REGULATORY THRESHOLDS:		LOWER		200,000	150,000		150,000		SPRING	
		UPPER		250,000	200,000		285,000		260,000	
								340,000		

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<sup>1</sup> Column entries reflect official December surveys (when available) from 1969/70 to 1997/98. December surveys and the separation of MF wintering Canada geese into populations were discontinued after December 1997. Subsequent entries reflect January surveys.

<sup>2</sup> Column entries reflect January counts (when available) which are the official counts for these populations or population segments.

<sup>3</sup> Beginning in 1998/99, estimates of TGP and SGP Canada geese are based on newly defined wintering range boundaries.

<sup>4</sup> Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83, we used the most recent Mexico count. Estimates of TGP geese in this column include only geese counted on the East Coast survey (not counted in 2003).

<sup>5</sup> In TX, SGP based on cruise surveys, TGP cruise/transct.

**CENTRAL FLYWAY SNOW/ROSS'S GOOSE POPULATION STATUS<sup>1</sup>, OBJECTIVES, AND REGULATORY THRESHOLDS**

YR	WESTERN CENTRAL FLYWAY			MID-CONTINENT POPULATION		
	U.S.	MEXICO <sup>2</sup>	TOTAL	CENTRAL FLYWAY	MISS. FLYWAY	TOTAL
1969/70	6,925	34,831	41,756	352,390	424,625	777,015
1970/71	11,140		11,140	415,254	654,900	1,070,154
1971/72	13,011		13,011	376,094	937,300	1,313,394
1972/73	11,579		11,579	492,965	532,300	1,025,265
1973/74	16,200		16,200	657,507	532,300	1,189,807
1974/75	26,420	26,472	52,892	655,080	441,500	1,096,580
1975/76	23,164		23,164	870,730	691,625	1,562,355
1976/77	33,640	51,345	84,985	578,940	571,350	1,150,290
1977/78	31,050	53,695	84,745	1,172,252	794,125	1,966,377
1978/79	28,161	59,060	87,221	772,623	513,050	1,285,673
1979/80	30,449	65,270	95,719	803,801	594,275	1,398,076
1980/81	37,551	44,855	82,406	902,043	504,650	1,406,693
1981/82	50,005	107,630	157,635	925,705	868,350	1,794,055
1982/83	76,102		76,102	923,340	832,125	1,755,465
1983/84	43,038		43,038	905,538	589,000	1,494,538
1984/85	62,905	83,605	146,510	980,220	992,825	1,973,045
1985/86	96,591		96,591	837,611	611,750	1,449,361
1986/87	63,545		63,545	900,437	1,013,375	1,913,812
1987/88	46,217	92,025	138,242	735,922	1,014,775	1,750,697
1988/89	67,637		67,637	598,132	1,358,100	1,956,232
1989/90	38,686		38,686	661,302	1,062,982	1,724,284
1990/91	104,624	77,905	182,529	799,880	1,335,870	2,135,800
1991/92	87,885		87,885	908,373	1,113,491	2,021,864
1992/93	45,145		45,145	895,951	848,131	1,744,082
1993/94	84,874	169,460	254,334	1,015,169	1,185,646	2,200,815
1994/95	80,127		80,127	1,203,360	1,521,732	2,725,092
1995/96	93,054		93,054	835,565	1,562,513	2,398,078
1996/97	127,172	88,910	216,082	1,208,606	1,749,080	2,957,686
1997/98	103,522		103,522	1,058,685	1,963,543	3,022,228
1998/99 <sup>1</sup>	236,365		236,365	1,114,384	1,461,342	2,575,726
2000	137,535	118,445	255,980	1,057,042	1,340,277	2,397,319
2001	105,754		105,754	751,926	1,589,344	2,341,272
2002 <sup>3</sup>	99,875		99,875	675,453	2,020,687	2,696,140
2003	105,900	61,519	167,419	826,981	1,608,046	2,435,027
2004	135,373		135,373	726,999	1,487,325	2,214,324
2005	142,974		142,974	877,917	1,466,284	2,344,201
2006 <sup>4</sup>	140,587	87,170	227,757	808,508	1,413,155	2,221,663
2007 <sup>5</sup>	170,642		170,642	1,076,557	1,840,537	2,917,094
2008	188,515		188,515	627,426	1,827,625	2,455,051
2009	284,446	NS	284,446	775,650	1,977,793	2,753,443
2010	238,084	NS	238,084	618,794	2,038,686	2,657,480
2011	196,013	NS	196,013	1,058,853	2,116,340	3,175,193
2012	205,331	NS	205,331	616,427	3,404,795	4,021,222
3-YEAR AVERAGES:						
1979/80 - 81/82	39,335	72,585	111,920	877,183	655,758	1,532,941
1980/81 - 82/83	54,553	76,243	130,795	917,029	735,042	1,652,071
1981/82 - 83/84	56,382	107,630	164,012	918,194	763,158	1,681,353
1982/83 - 84/85	60,682	83,605	144,287	936,366	804,650	1,741,016
1983/84 - 85/86	67,511	83,605	151,116	907,790	731,192	1,638,981
1984/85 - 86/87	74,347	83,605	157,952	906,089	872,650	1,778,739
1985/86 - 87/88	68,784	92,025	160,809	824,657	879,967	1,704,623
1986/87 - 88/89	59,133	92,025	151,158	744,830	1,128,750	1,873,580
1987/88 - 89/90	50,847	92,025	142,872	665,119	1,145,286	1,810,404
1988/89 - 90/91	70,316	77,905	148,221	686,438	1,252,317	1,938,772
1989/90 - 91/92	77,065	77,905	154,970	789,852	1,170,781	1,960,649
1990/91 - 92/93	79,218	77,905	157,123	789,852	1,170,781	1,967,249
1991/92 - 93/94	72,635	169,460	242,095	939,831	1,049,089	1,988,920
1992/93 - 94/95	70,049	169,460	239,509	1,038,160	1,185,170	2,223,330
1993/94 - 95/96	86,018	169,460	255,478	1,018,031	1,423,297	2,441,328
1994/95 - 96/97	100,118	88,910	189,028	1,082,510	1,611,108	2,693,619
1995/96 - 97/98	107,916	88,910	196,826	1,034,285	1,758,379	2,792,664
1996/97 - 98/99	155,686	88,910	244,596	1,127,225	1,724,655	2,851,880
1997/98 - 2000	159,141	118,445	277,586	1,076,704	1,588,387	2,665,091
1998/99 - 2001	159,885	118,445	278,330	974,451	1,463,654	2,438,106
1999/00 - 2002	114,388	118,445	232,833	828,141	1,650,103	2,478,244
2001 - 2003	103,843	61,519	165,362	751,454	1,739,359	2,490,813
2002-2004	113,716	61,519	175,235	743,144	1,705,353	2,448,497
2003-2005	128,082	61,519	189,601	810,632	1,520,552	2,331,184
2004-2006	139,645	87,170	226,815	804,475	1,455,588	2,260,063
2005-2007	151,401	87,170	238,571	920,994	1,573,325	2,494,319
2006-2008	166,581	87,170	253,751	837,497	1,693,772	2,531,269
2007-2009	214,534	87,170	301,704	826,544	1,881,985	2,708,529
2008-2010	237,015	87,170	324,185	673,957	1,948,035	2,621,991
2009-2011	239,514	87,170	326,684	817,766	2,044,273	2,862,039
2010-2012	213,143	87,170	300,313	764,691	2,519,940	3,284,632
POPULATION OBJECTIVES:						
	110,000			1,000,000 - 1,500,000		
REGULATORY THRESHOLDS:						
	110,000			1,000,000 - 1,500,000		

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<sup>1</sup> From 1969/70 to 1997/98 light geese were surveyed in Mid-December except in Mexico (January). After 1997, Mid-December surveys were discontinued and all subsequent surveys were conducted in January.

<sup>2</sup> Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83, we used the most recent Mexico count. Estimates of WCF geese in this column include only those geese counted in traditional survey areas within the Interior Highlands. The tri-annual survey in Mexico has not been conducted since 2006 due to safety concerns.

<sup>3</sup> In 2002, traditional Mid Dec. cruise count not completed in TX. Light goose estimate based on transect in Jan.

<sup>4</sup> Mississippi changed to a transect survey in Zone 1, only counted mallards and unidentified ducks.

<sup>5</sup> In 2007, TX was unable to complete their traditional coastal Dec. survey, light geese were counted in January.

## JANUARY 2012 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY<sup>1</sup>

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	88,698	43,489	419,307	57,687	129,547	319,183	220,503	230,444	35,199	574,828	2,118,885
Black Duck											0
Mottled Duck											30,624
Gadwall											922,231
Wigeon											191,135
G-W Teal											164,554
BW/CIN Teal											359,984
Shoveler	200	1	327	753	52	2,798	12,245	16,021	5,136	14,028	19,241
Pintail											188,706
Wood Duck											350,985
Whistling Duck											18,259
<b>Total Dabblers</b>	<b>88,899</b>	<b>43,489</b>	<b>419,344</b>	<b>60,614</b>	<b>131,166</b>	<b>320,089</b>	<b>255,205</b>	<b>274,336</b>	<b>123,032</b>	<b>2,512,773</b>	<b>4,231,947</b>
Redhead	8	10	10	339	39	1,651	57	116	316,406	318,626	
Canvasback			0	73	69	72	375	286	28,394	29,269	
Scaup			25	197	73	356	1,138	764	268,301	270,854	
Ringneck	1		446	502	34	4,025	3,701	983	159,320	169,012	
Goldeneye	123	4,986	68	18,839	721	1,438	2,411	146	76	10,860	39,968
Bufflehead	1	111	25	96	374	95	690	122	143	32,431	34,088
Ruddy Duck			2	25	36	139	107	127	1,208	1,644	
<b>Total Divers</b>	<b>125</b>	<b>5,105</b>	<b>95</b>	<b>19,441</b>	<b>2,242</b>	<b>1,748</b>	<b>9,344</b>	<b>5,646</b>	<b>2,495</b>	<b>816,920</b>	<b>863,161</b>
Scoters											0
Long-tailed Ducks											0
Mergansers	112	202	316	3,734	1	726	7,198	5,894	6,344	4,351	37,103
Unident. Ducks						41,622	575	3,205	6,849	59	154,483
<b>Total Ducks</b>	<b>89,136</b>	<b>48,796</b>	<b>419,755</b>	<b>83,790</b>	<b>178,756</b>	<b>329,610</b>	<b>273,648</b>	<b>293,175</b>	<b>129,937</b>	<b>3,440,092</b>	<b>5,286,695</b>
Brant											
Snow/Blue Goose	19	17	1,896	17	51,409	30,126	183,159	94,964	36,396	382,543	780,546
Ross's Goose							2	11,956	29,254		41,212
Whitefront							35	9,910	1,523	67,344	78,812
Canada Goose	190,197	170,210	306,625	51,611	225,048	185,021	65,385	255,663	22,166	237,029	1,708,955
<b>Total Geese</b>	<b>190,216</b>	<b>170,227</b>	<b>308,521</b>	<b>51,628</b>	<b>276,457</b>	<b>215,182</b>	<b>258,456</b>	<b>364,106</b>	<b>87,816</b>	<b>686,916</b>	<b>2,609,525</b>
Tundra Swan											
Trumpeter Swan											
Mute Swan											
Unident. Swans											
<b>Total Swans</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>8</b>	<b>5</b>	<b>753</b>	<b>30</b>	<b>5</b>	<b>11</b>	<b>9</b>	<b>862</b>
Coot											
<b>Grand Total</b>	<b>279,352</b>	<b>219,187</b>	<b>728,317</b>	<b>136,069</b>	<b>456,954</b>	<b>547,300</b>	<b>535,242</b>	<b>658,818</b>	<b>222,846</b>	<b>4,188,808</b>	<b>7,972,893</b>

\*In TX, SG and TGP based on cruise surveys. Traditional Mid Dec. coastal cruise count completed for MC Light/WFG geese.

Jan count in High and Rolling Plains also included in Light/WFG count but transect numbers in the other survey zones not included (used actual counts).

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CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 2010-19

SPECIES	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2010-2011 AVG
Mallard	1,469,007	1,572,128	2,118,885								1,520,568
Black Duck	0	0	0	0							0
Mottled Duck	23,314	39,458	30,624								31,386
Gadwall	787,075	762,915	922,231								774,995
Wigeon	423,296	223,430	191,135								323,363
G-W Teal	360,769	310,154	392,181								335,462
BW/CIN Teal	25,924	76,880	19,241								51,402
Shoveler	195,455	138,215	188,706								166,885
Pintail	421,008	450,689	350,685								435,849
Wood Duck	12,109	57,522	18,259								34,816
Whistling Duck	280	0	0								140
Total Dabblers	3,718,237	3,631,391	4,231,947	0	0	0	0	0	0	0	3,674,814
Redhead	36,970	209,121	318,626								123,046
Canvasback	36,486	33,436	29,269								34,961
Scaup	419,805	216,183	270,854								317,994
Ringneck	279,816	278,133	169,012								278,975
Goldeneye	35,685	24,668	39,668								30,177
Bufflehead	34,510	13,618	34,088								24,064
Ruddy Duck	2,600	3,189	1,644								2,895
Total Divers	845,872	778,348	863,161	0	0	0	0	0	0	0	812,110
Scoter	0	0	0								0
Long-tailed Duck	2	0	1								1
Mergansers	54,125	57,947	37,103								56,036
Unident. Ducks	207,024	351,528	154,483								279,276
<b>TOTAL DUCKS</b>	<b>4,825,260</b>	<b>4,819,214</b>	<b>5,286,695</b>	<b>0</b>	<b>4,822,237</b>						
Brant	0	0	0								0
Snow/Blue Goose	840,342	1,223,373	780,546								1,031,858
Ross' Goose	16,536	31,493	41,212								24,015
White-fronted Goose	161,119	128,171	78,812								144,645
Canada goose	1,445,762	1,540,347	1,708,955								1,493,055
<b>TOTAL GEESE</b>	<b>2,463,759</b>	<b>2,923,384</b>	<b>2,609,525</b>	<b>0</b>	<b>2,693,572</b>						
Tundra Swan	22	14	32								18
Trumpeter Swan	592	790	808								691
Mute Swan	0	0	8								0
Unident. Swans	63	61	14								62
<b>TOTAL SWANS</b>	<b>677</b>	<b>865</b>	<b>862</b>	<b>0</b>	<b>771</b>						
Coot	460,300	592,219	75,811								526,260
<b>GRAND TOTAL</b>	<b>7,749,996</b>	<b>8,335,682</b>	<b>7,972,893</b>	<b>0</b>	<b>8,042,839</b>						

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CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 2000-09

SPECIES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2000-09 AVG
Mallard	1,798,494	1,866,170	1,877,544	1,825,639	1,183,436	1,425,943	1,696,808	1,994,971	1,852,566	1,510,434	1,703,201
Black Duck	11	0	0	10	4	13	0	0	1	0	4
Mottled Duck	30,639	15,035	25,076	24,797	23,734	31,389	18,396	38,248	27,470	25,324	26,008
Gadwall	762,360	561,275	532,403	588,194	971,407	604,554	856,352	675,176	1,033,802	695,751	728,127
Wigeon	421,453	180,825	286,363	450,146	326,325	354,509	230,293	169,821	278,361	263,168	296,126
G-W Teal	576,173	210,864	451,114	187,545	436,981	241,663	511,213	486,847	1,261,112	689,119	505,293
BW/CIN Teal	2,519	30,862	24,093	149,309	215,398	287,307	55,616	44,627	60,923	97,200	96,785
Shoveler	161,851	152,701	122,979	173,302	169,739	102,244	130,219	101,936	116,278	101,470	133,272
Pintail	374,407	327,797	492,311	713,071	664,003	572,008	857,151	681,902	936,028	572,499	619,118
Wood Duck	13,397	39,505	10,370	7,454	14,274	6,798	12,320	25,336	9,101	4,650	14,321
Whistling Duck	0	0	0	11,719	15,269	27,571	0	52,607	87,007	0	19,417
Total Dabblers	4,141,304	3,385,034	3,822,253	4,131,186	4,020,570	3,653,999	4,368,368	4,271,441	5,662,649	3,959,615	4,141,642
Redhead	115,096	256,224	517,788	359,795	127,814	364,646	459,592	38,462	224,140	162,867	262,642
Canvasback	15,438	22,286	62,756	16,142	6,798	6,557	17,324	3,769	16,974	35,087	20,313
Scaup	144,800	89,889	141,456	327,027	268,811	97,961	90,890	95,890	92,456	791,864	214,104
Ringneck	127,735	98,015	117,639	127,152	156,086	204,323	81,773	82,410	227,548	158,142	138,082
Goldeneye	27,481	36,340	27,775	21,966	33,752	20,432	18,088	34,691	25,621	38,945	28,509
Bufflehead	37,690	44,682	18,750	9,244	8,529	34,938	25,234	6,655	11,352	20,085	21,716
Ruddy Duck	54,570	3,201	2,459	3,258	2,938	2,313	254	76	3,136	34,578	10,678
Total Divers	522,810	550,637	888,623	864,584	604,728	731,170	693,155	261,953	601,227	1,241,568	696,046
Scoter	0	0	0	0	0	0	0	0	0	0	0
Oldsquaw	0	0	2	1	0	0	0	0	0	0	0
Mergansers	190,795	69,329	116,994	96,455	67,835	38,587	86,992	37,281	46,579	68,364	81,921
Unident. Ducks	232,465	85,110	146,930	94,391	100,430	193,824	63,760	25,332	259,873	177,613	137,973
<b>TOTAL DUCKS</b>	<b>5,087,374</b>	<b>4,090,110</b>	<b>4,974,802</b>	<b>5,186,617</b>	<b>4,793,563</b>	<b>4,617,580</b>	<b>5,212,275</b>	<b>4,596,007</b>	<b>6,570,328</b>	<b>5,447,160</b>	<b>5,057,582</b>
Brant	0	0	0	0	1	0	0	0	0	0	0
Snow/Blue Goose	1,186,088	847,996	771,141	920,940	842,559	1,009,894	940,478	1,240,242	790,139	1,036,810	958,629
Ross' Goose	8,489	9,685	4,187	11,941	19,813	10,997	8,617	6,957	25,802	23,286	12,977
White-fronted Goose	145,219	141,189	260,849	213,343	79,389	147,783	304,093	243,081	82,936	103,172	172,105
Canada goose	1,400,416	1,286,397	1,625,355	1,606,017	1,608,775	1,271,517	1,448,691	1,597,631	1,584,979	1,488,503	1,491,828
<b>TOTAL GEESE</b>	<b>2,740,212</b>	<b>2,285,267</b>	<b>2,661,532</b>	<b>2,752,241</b>	<b>2,550,537</b>	<b>2,440,191</b>	<b>2,701,879</b>	<b>3,087,911</b>	<b>2,483,856</b>	<b>2,651,771</b>	<b>2,635,540</b>
Tundra Swan	7	15	13	7	22	12	26	9	10	5	13
Trumpeter Swan	395	303	227	395	271	606	614	780	651	696	494
Mute Swan	2	0	0	6	16	2	0	0	0	0	3
Unident. Swans	5	17	25	16	8	14	10	2	14	16	13
<b>TOTAL SWANS</b>	<b>409</b>	<b>335</b>	<b>265</b>	<b>424</b>	<b>317</b>	<b>634</b>	<b>650</b>	<b>791</b>	<b>675</b>	<b>717</b>	<b>522</b>
Coot	218,707	265,066	549,363	346,894	561,937	245,746	290,874	437,764	732,687	414,100	406,314
<b>GRAND TOTAL</b>	<b>8,046,702</b>	<b>6,640,778</b>	<b>8,185,962</b>	<b>8,286,176</b>	<b>7,906,354</b>	<b>7,304,151</b>	<b>8,205,678</b>	<b>8,122,473</b>	<b>9,787,546</b>	<b>8,513,748</b>	<b>8,099,957</b>

**CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 1990-99**

SPECIES	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1990-99 AVG
Mallard	1,299,805	791,723	1,437,186	591,251	746,749	862,067	919,812	1,328,407	1,902,451	2,558,207	1,243,766
Black Duck	0	5	1	0	6	0	0	1	0	0	1
Mottled Duck	22,300	45,100	52,700	47,377	41,920	35,863	21,814	24,488	17,892	0	32,075
Gadwall	136,621	129,079	116,749	138,305	129,771	152,979	370,233	489,898	554,810	228,952	91,682
Wigeon	32,444	27,396	214,920	45,670	55,936	60,856	66,863	81,744	175,581	155,411	536,014
G-W Teal	280,257	81,307	722,935	327,341	156,102	2,205,886	260,638	449,524	381,897	494,256	5,622
BW/CIN Teal	1,112	760	5,065	3,948	3,252	15,949	1,317	6,928	2,784	15,106	80,080
Shoveler	85,945	41,682	54,154	59,683	142,284	77,357	68,113	77,396	83,302	110,886	549,193
Pintail	589,250	97,190	905,320	319,120	431,924	721,753	317,173	505,419	612,712	992,064	5,119
Wood Duck	405	900	2,109	3,038	1,927	10,085	595	16,772	19,444	5,915	2,749
Whistling Duck	100	100	1,500	16,300	735	899	545	1,000	3,510	2,796	2,749
Total Dabblers	2,448,239	1,123,435	3,517,369	1,535,800	1,724,597	4,126,543	1,823,898	2,859,238	3,696,067	4,907,343	2,776,253
Redhead	193,608	213,347	236,326	313,557	231,067	565,288	262,530	296,567	251,866	293,855	285,799
Canvasback	32,934	5,250	17,935	6,746	15,072	57,077	22,676	9,424	14,177	40,470	22,176
Scaup	36,683	12,667	24,737	57,012	92,990	51,886	76,855	55,550	74,713	131,968	61,506
Ringneck	41,304	8,163	45,232	28,936	18,954	13,847	12,068	61,576	186,004	202,481	61,857
Goldeneye	18,217	12,446	18,398	12,839	17,092	24,633	18,055	17,296	17,450	22,464	17,889
Bufflehead	4,839	3,811	7,620	24,688	13,899	12,192	11,029	7,041	16,499	16,665	11,828
Ruddy Duck	2,720	1,369	2,899	14,040	5,558	24,527	5,501	4,190	1,316	3,169	6,529
Total Divers	330,305	257,053	353,147	457,818	394,632	749,430	408,714	451,644	562,025	711,072	467,584
Scoter	2	0	0	0	0	0	0	0	0	0	0
Long-tailed Duck	1	0	0	0	0	0	0	0	0	0	0
Mergansers	134,073	124,543	131,322	93,361	105,802	65,783	122,796	90,481	66,516	89,148	102,383
Unident. Ducks	438,525	13,937	8,881	17,446	4,293	5,357	18,773	701,689	704,765	407,522	232,119
<b>TOTAL DUCKS</b>	<b>3,351,145</b>	<b>1,518,968</b>	<b>4,010,719</b>	<b>2,104,425</b>	<b>2,229,324</b>	<b>4,947,113</b>	<b>2,374,181</b>	<b>4,103,052</b>	<b>5,029,373</b>	<b>6,115,085</b>	<b>3,578,339</b>
Brant	0	0	0	0	0	0	0	0	0	0	0
Snow/Blue Goose	699,988	904,504	996,258	941,096	1,100,043	1,349,746	928,619	1,330,006	1,162,207	1,344,173	1,075,664
Ross' Goose	0	0	0	0	0	0	0	0	0	0	0
White-fronted Goose	90,830	155,211	85,881	158,625	188,878	194,845	154,519	215,254	356,531	200,391	4,116
Canada goose	1,170,027	1,648,529	1,779,685	1,028,518	1,017,592	1,316,206	1,333,912	1,311,092	1,390,837	1,640,852	180,097
<b>TOTAL GEESE</b>	<b>1,960,845</b>	<b>2,708,244</b>	<b>2,861,824</b>	<b>2,128,239</b>	<b>2,306,513</b>	<b>2,860,797</b>	<b>2,417,050</b>	<b>2,862,124</b>	<b>2,909,575</b>	<b>3,191,992</b>	<b>2,620,720</b>
Tundra Swan	3	10	1	1	0	32	8	3	9	2	7
Trumpeter Swan	170	203	166	161	252	234	227	177	270	139	200
Mute Swan	0	2	0	0	1	2	0	0	0	0	1
Unident. Swans	0	0	0	12	3	5	0	0	7	26	5
<b>TOTAL SWANS</b>	<b>173</b>	<b>215</b>	<b>167</b>	<b>174</b>	<b>256</b>	<b>273</b>	<b>235</b>	<b>180</b>	<b>286</b>	<b>167</b>	<b>213</b>
Coot	273,221	75,155	127,631	98,390	153,174	289,636	246,531	135,878	658,349	443,535	250,150
<b>GRAND TOTAL</b>	<b>5,585,384</b>	<b>4,302,582</b>	<b>7,000,341</b>	<b>4,331,228</b>	<b>4,689,267</b>	<b>8,097,819</b>	<b>5,037,997</b>	<b>7,101,234</b>	<b>8,597,583</b>	<b>9,750,779</b>	<b>6,449,421</b>

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**CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS IN 2012 RELATED TO PREVIOUS SURVEYS**

SPECIES	2012		2011		% Change, 2012 from 2011		% Change, 2010-2011 Avg		% Change, 1948-2011 Avg		% Change, 2012 from 48-2011 Avg		% Change, 2012 from 90-99 Avg		% Change, 2012 from 80-89 Avg		% Change, 2012 from 70-79 Avg		% Change, 2012 from 60-69 Avg		% Change, 2012 from 48-59 Avg	
	2012	2011	2011	2010	2011 Avg	2010-2011 Avg	2010-2011 Avg	2010-2011 Avg	1948-2011 Avg	2012 from 48-2011 Avg	2012 from 90-99 Avg	2012 from 80-89 Avg	2012 from 90-99 Avg	2012 from 80-89 Avg	2012 from 70-79 Avg	2012 from 60-69 Avg	2012 from 48-59 Avg					
Mallard	2,118,885	1,572,128	35%	1,520,568	39%	1,727,357	23%	24%	70%	65%	-3%	13%	3%									
Black Duck	0	0		0		14		-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%		
Mottled Duck	30,624	39,458	-22%	31,386	-2%	23,107	33%	18%	-5%	-12%	-31%	1353%	1963%	1963%	1963%	1963%	1963%	1963%	1963%	1963%	1963%	
Gadwall	922,231	762,915	21%	774,995	19%	239,555	285%	27%	303%	534%	371%	1849%	3309%	3309%	3309%	3309%	3309%	3309%	3309%	3309%	3309%	
Wigeon	191,135	223,430	-14%	323,363	-41%	162,929	17%	-35%	108%	120%	3%	21%	44%									
G-W Teal	392,181	310,154	26%	335,462	17%	362,268	8%	-22%	-27%	-9%	-28%	176%	410%	410%	410%	410%	410%	410%	410%	410%	410%	
BW/CIN Teal	19,241	76,880	-75%	51,402	-63%	22,908	-16%	-80%	-80%	-242%	-223%	179%	1771%	1771%	1771%	1771%	1771%	1771%	1771%	1771%	1771%	
Shoveler	188,706	138,215	37%	166,835	13%	68,714	175%	42%	136%	206%	133%	812%	664%	664%	664%	664%	664%	664%	664%	664%	664%	
Pintail	350,685	450,689	-22%	435,849	-20%	730,459	-52%	-43%	-36%	-40%	-69%	-25%	-66%	-66%	-66%	-66%	-66%	-66%	-66%	-66%	-66%	
Wood Duck	18,259	57,522	-68%	34,816	-48%	0	-100%	28%	198%	477%	1871%	1871%	1624%	1624%	1624%	1624%	1624%	1624%	1624%	1624%	1624%	
Whistling Duck	0	0		140		-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	
Total Dabblers	4,231,947	3,631,391	17%	3,674,814	15%	3,346,016	26%	2%	2%	52%	60%	-3%	55%	27%								
Redhead	318,626	209,121	52%	123,046	159%	327,292	-3%	21%	11%	38%	8%	3%										
Canvasback	29,269	33,436	-12%	34,961	-16%	19,559	50%	44%	32%	-10%	58%	243%	115%	115%	115%	115%	115%	115%	115%	115%	115%	
Scap	270,854	216,183	25%	317,994	-15%	131,857	105%	27%	340%	272%	251%	251%										
Ringneck	169,012	278,133	-39%	278,975	-39%	45,251	273%	22%	173%	173%	746%	2777%	2777%	2777%	2777%	2777%	2777%	2777%	2777%	2777%	2777%	
Goldeneye	39,668	24,668	61%	30,177	31%	17,318	129%	39%	122%	114%	114%	114%	306%	255%	255%	255%	255%	255%	255%	255%	255%	
Bufflehead	34,088	13,618	150%	24,064	42%	8,629	295%	57%	188%	471%	435%	435%	909%									
Ruddy Duck	1,644	3,189	-48%	2,895	-43%	7,471	-78%	-8%	-75%	-85%	-67%	-85%	-85%	-85%	-85%	-85%	-85%	-85%	-85%	-85%	-85%	
Total Divers	853,161	778,348	11%	812,110	6%	557,378	55%	24%	85%	124%	121%	106%	111%	111%	111%	111%	111%	111%	111%	111%	111%	
Scooter	0	0		0		0		0														
Long-tailed Duck	1	0		1		0		0														
Mergansers	37,103	57,947	-36%	56,036	-34%	82,892	-55%	-55%	-64%	-64%	-64%	-54%	-54%	-54%	-54%	-54%	-54%	-54%	-54%	-54%	-54%	
Unident. Ducks	154,483	351,528	-56%	279,276	-45%	90,215	71%	12%	33%	33%	33%	316%	316%	316%	316%	316%	316%	316%	316%	316%	316%	
TOTAL DUCKS	5,286,695	4,819,214	10%	4,822,237	10%	4,076,501	30%	30%	5%	5%	66%	7%	64%	23%								
Brant	0	0		0		0		0														
Snow/Blue Goose	780,546	1,223,373	-36%	1,031,858	-24%	713,613	9%	-19%	-27%	-14%	19%	159%	103%	103%	103%	103%	103%	103%	103%	103%	103%	
Ross' Goose	41,212	31,493	31%	24,015	72%	7,050	218%	901%	901%	19%	19%	19%										
White-fronted Goose	78,812	128,171	-39%	144,645	-46%	93,918	-16%	-56%	-56%	-38%	-38%	62%	388%	228%	228%	228%	228%	228%	228%	228%	228%	
Canada Goose	1,708,955	1,540,347	11%	1,493,055	14%	763,896	124%	15%	25%	25%	92%	92%	277%	277%	277%	277%	277%	277%	277%	277%	277%	
TOTAL GEESE	2,609,525	2,923,384	-11%	2,693,572	-3%	1,574,401	66%	-1%	0%	36%	36%	36%										
Tundra Swan	32	14	129%	18	78%	13	150%	154%	364%	364%	364%	364%	364%	364%	364%	364%	364%	364%	364%	364%		
Trumpeter Swan	808	790	2%	691	17%	228	254%	20%	150%	150%	150%	150%	150%	150%	150%	150%	150%	150%	150%	150%		
Mute Swan	8	0		0		62	-77%	10%	164%	164%	164%	164%	164%	164%	164%	164%	164%	164%	164%	164%		
Unident. Swans	14	61	-77%	62	-77%																	
TOTAL SWANS	862	865	0%	771	12%	246	250%	65%	305%	305%	305%	305%	305%	305%	305%	305%	305%	305%	305%	305%		
Coot	75,811	592,219	-87%	526,260	-86%	255,220	-70%	-81%	-70%	-74%	-74%	-65%	-65%	-65%	-65%	-65%	-65%	-65%	-65%	-65%	-65%	
GRAND TOTAL	7,972,893	8,335,682	-4%	8,042,839	-1%	5,906,368	35%	-2%	24%	48%	48%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	

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04/20/12

BREEDING POPULATION ESTIMATES FOR 10 SPECIES OF DUCKS (Thousands) FROM THE TRADITIONAL SURVEY AREA (strata 1-18, 20-50, 75-77)

YEAR	MAL	GAD	WIG	GWT	BWT	SHO	PIN	RED	CAN	SCP	TOTAL
1955	8,777	652	3,217	1,807	5,305	1,643	9,775	540	589	5,984	37,925
1956	10,453	773	3,145	1,525	4,988	1,781	10,373	757	699	40,498	
1957	9,297	667	2,920	1,103	4,300	1,476	6,607	509	626	5,767	33,272
1958	11,234	502	2,552	1,347	5,457	1,384	6,038	457	747	5,350	35,068
1959	9,024	590	3,788	2,653	5,089	1,578	5,873	489	489	7,038	36,631
1960	7,372	784	2,988	1,427	4,283	1,825	5,722	498	606	4,869	30,384
1961	7,330	655	3,048	1,729	3,655	1,383	4,218	435	323	5,380	28,156
1962	5,536	905	1,959	723	3,011	1,269	3,624	508	360	5,286	
1963	6,749	1,055	1,831	1,242	3,724	1,396	3,846	413	506	5,438	26,202
1964	6,064	873	2,590	1,561	4,021	1,718	3,201	528	644	5,132	26,422
1965	5,132	1,260	1,282	3,585	4,227	1,424	5,652	599	522	4,640	24,347
1966	6,732	1,680	2,318	1,617	3,733	2,147	4,812	713	663	4,439	28,854
1967	7,510	1,594	2,326	1,385	4,492	2,315	5,278	503	503	4,928	
1968	7,089	1,949	2,299	1,431	3,463	1,685	3,489	499	564	4,413	26,881
1969	7,532	1,573	2,941	1,491	4,139	2,157	5,904	633	504	5,140	32,014
1970	9,986	1,608	3,470	1,833	4,882	2,230	6,392	622	580	5,663	
1971	9,416	1,606	3,273	1,889	4,610	2,011	5,847	534	451	5,134	34,771
1972	9,266	1,623	3,200	1,948	4,229	1,619	4,667	6,979	7,987	38,736	
1973	8,079	1,246	2,878	1,949	3,333	2,147	4,812	713	663	3,257	30,839
1974	1,592	2,672	1,865	4,976	2,011	6,938	6,256	501	621	6,257	31,067
1975	6,727	1,644	2,778	1,665	5,885	1,981	5,900	682	595	6,781	33,514
1976	7,934	1,245	2,505	1,548	4,745	1,748	5,476	666	614	5,460	35,467
1977	7,397	1,299	2,575	1,286	4,463	1,452	5,226	634	664	5,819	32,300
1978	7,425	1,558	3,282	2,174	4,489	1,975	5,108	725	373	5,984	33,103
1979	7,883	1,758	3,107	2,072	4,876	2,407	5,376	698	582	7,658	36,417
1980	7,707	1,393	2,050	3,586	4,885	2,050	4,508	728	6,382	33,902	
1981	6,410	1,395	2,946	1,911	3,721	2,334	3,480	595	621	5,991	29,404
1982	6,409	1,634	2,459	1,536	3,638	2,148	3,709	617	513	5,532	
1983	6,456	1,519	2,638	1,875	3,367	1,976	3,511	712	527	7,174	28,653
1984	5,415	1,515	3,002	1,408	3,979	1,618	2,985	671	530	7,024	28,127
1985	4,961	1,303	2,051	1,475	3,502	1,702	2,516	720	376	5,098	23,662
1986	6,124	1,547	1,737	1,675	4,479	2,128	2,740	560	438	5,235	26,663
1987	5,790	1,306	2,013	2,013	2,006	3,153	2,047	502	450	4,863	25,037
1988	6,369	1,350	2,061	2,061	4,011	1,681	2,006	442	435	4,671	25,237
1989	5,645	1,415	1,973	1,842	3,125	1,538	2,112	511	477	4,342	22,980
1990	5,452	1,672	1,860	1,790	2,776	1,759	2,257	481	481	4,293	
1991	5,445	1,584	2,254	1,558	3,764	1,716	1,803	486	491	5,255	24,316
1992	5,976	2,033	2,208	1,773	4,333	1,954	2,098	598	482	4,639	
1993	5,708	1,755	2,053	1,695	3,193	2,047	2,053	472	408	4,080	23,541
1994	6,980	2,318	2,382	2,108	5,103	2,912	2,972	654	526	4,529	29,987
1995	8,269	2,836	2,615	2,301	4,207	2,655	2,758	889	771	4,446	
1996	7,941	2,984	2,273	2,459	6,416	3,449	3,736	834	849	4,217	34,158
1997	9,940	3,897	3,118	2,507	6,124	3,551	3,558	918	689	4,112	
1998	9,640	3,742	3,858	2,087	6,398	3,183	3,521	1,005	686	3,472	35,563
1999	10,806	3,236	2,920	2,631	7,150	3,890	3,058	973	716	4,412	39,792
2000	9,470	3,158	2,733	3,194	7,431	3,321	3,908	726	707	4,026	
2001	7,904	2,679	2,494	2,509	5,757	3,314	3,296	712	580	3,694	32,939
2002	7,504	2,235	2,334	2,334	4,207	2,318	2,736	565	487	3,524	27,298
2003	7,950	2,551	2,679	2,551	3,679	2,658	3,558	637	558	3,734	
2004	7,425	2,590	1,981	2,461	4,073	2,810	2,185	605	617	3,807	28,554
2005	6,755	2,277	2,225	2,171	2,157	2,586	3,592	592	521	3,387	
2006	7,277	2,825	2,587	2,800	5,880	3,680	3,386	916	916	3,247	32,639
2007	8,307	3,356	2,807	2,807	6,890	3,708	4,553	1,009	865	3,452	37,282
2008	7,724	2,728	2,487	2,980	6,640	3,508	2,613	1,056	489	3,738	33,962
2009	8,512	3,054	2,469	3,444	7,304	4,376	3,225	1,044	662	4,172	38,342
2010	8,430	2,977	3,425	3,476	7,223	4,547	3,509	1,064	585	4,244	37,096
2011	9,183	3,257	2,084	2,900	8,948	4,641	4,429	1,356	692	4,319	41,810
2012	10,602	3,586	2,145	3,471	9,242	5,018	3,473	1,270	760	5,239	44,806

AVERAGES:

Current Year Percent Change From:	NAWMP Long Term	136% 92%	-28% -17%	87% 72%	99% 91%	152% 107%	-37% -14%	99% 86%	40% 32%	-17% -4%	31% 41%
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KL\_Kaise FILE\_SuCF\_PROJECTSMONITORINGHARVEST DATA(DATABASE) 07/05/12

# **TUNDRA SWAN**

## **POPULATION STATUS & HARVESTS**

D.E. SHARP FILE: S:\DATABOOK\TITLES\SWANHARV.123

**EASTERN POPULATION OF TUNDRA SWANS OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY**

YR	ATLANTIC FLYWAY										MISSISSIPPI FLYWAY				TOTAL	3-YR AVG		
	MA	VT	NH	RJ	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL			
1980	0	0	0	0	37	217	0	527	1,566	29,994	8,350	19,100	66	0	0	200	60,057	
1981	0	0	0	0	3	1,260	0	725	959	29,996	13,122	46,600	100	0	0	0	92,965	
1982	0	0	0	0	0	242	0	900	0	19,600	9,800	42,200	165	0	0	0	75,401	
1983	0	0	0	0	0	800	0	1,800	3,000	23,000	5,600	52,200	64	0	0	550	84,554	
1984	209	0	0	0	0	100	0	600	0	29,002	7,000	44,100	199	0	25	100	80,685	
1985	0	0	0	0	0	340	0	1,230	100	23,500	6,965	61,500	269	5	0	2,500	88,603	
1986	0	0	0	0	0	756	0	800	400	30,020	6,378	52,300	86	1	25	150	89,745	
1987	0	0	0	0	0	5,105	1	4,000	1,400	25,700	4,685	53,543	70	0	0	1,000	94,543	
1988	0	0	0	0	0	13	5	0	2,800	0	22,100	5,291	46,805	96	0	0	1,200	88,460
1989	0	0	0	0	0	502	0	2,300	175	28,542	5,927	53,656	45	3	0	25	125	
1990	0	0	0	0	0	340	0	3,600	90	20,078	6,092	60,238	155	0	0	9	17	
1991	0	0	0	0	0	1,856	0	2,800	121	23,104	4,491	64,999	53	0	0	754	90,619	
1992	0	0	0	0	0	35	0,058	0	724	144	22,976	7,207	75,607	37	0	0	2,929	96,372
1993	0	0	0	0	0	83	4,868	0	305	72	18,248	7,046	45,930	41	0	0	0	100,620
1994	0	0	0	0	0	8	686	1	1,044	126	18,780	9,132	54,664	86	0	0	184	96,477
1995	0	0	0	0	0	206	2,012	770	64	15,578	7,605	53,870	116	0	0	2,473	84,772	
1996	0	0	0	0	0	115	4	512	197	16,344	10,945	50,716	188	0	0	113	82,701	
1997	0	0	0	0	0	3,515	0	667	594	12,238	11,211	57,730	165	0	0	6,027	79,527	
1998	0	0	0	0	0	139	1,949	0	495	1,171	21,563	7,186	63,761	280	0	0	2,679	83,147
1999	0	0	0	0	0	553	0	935	76	15,557	8,814	83,106	0	0	0	296	85,683	
2000	0	0	0	0	0	1,06	0	130	1,497	15,609	7,596	77,044	100	0	0	8,897	101,298	
2001	0	0	0	0	0	99	363	24	197	20,798	9,428	66,966	220	0	0	231	98,952	
2002	0	0	0	0	4	116	1,098	3	473	920	16,610	5,994	78,394	222	0	0	7,169	98,444
2003	0	0	0	0	0	205	548	0	105	802	15,112	7,725	83,351	339	0	0	1,379	108,486
2004	0	0	0	0	0	8	1,261	0	495	667	17,891	7,173	67,188	292	0	0	13,737	108,281
2005	0	0	0	0	0	132	786	205	387	13,248	6,488	47,364	125	0	0	2,668	112,401	
2006	0	0	0	0	0	399	2,464	2	165	147	8,239	4,576	54,064	398	0	0	9,746	98,330
2007	0	0	0	0	0	363	0	290	520	8,656	4,979	72,653	379	0	0	16,057	88,177	
2008	0	0	0	0	0	1,178	4	332	651	10,580	6,738	69,023	NS	0	0	5,917	114,418	
2009	0	0	0	0	0	783	0	165	223	14,183	6,584	76,788	578	0	0	NS	99,826	
2010	0	0	0	0	2	89	2	425	215	14,004	6,584	70,273	319	0	0	4,081	102,919	
2011	0	0	0	0	0	155	0	316	258	14,355	8,767	69,501	404	0	0	1,445	100,619	
2012	0	0	0	0	0	691	0	425	178	16,599	8,884	59,716	300	0	0	13,512	101,711	

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07/10/12

**ESTIMATED HARVESTS (RETRIEVED) OF EASTERN AND WESTERN POPULATION TUNDRA SWANS**

YR	EASTERN POPULATION				WESTERN POPULATION				TOTAL		
	MT	ND	SD	NC	VA	TOTAL	UT	NV	MT	AK	TOTAL
1962						320					320
1963						392					392
1964						335					335
1965						336					336
1966						491					491
1967						246					246
1968						520					520
1969						1,377					1,464
1970						1,078	208				1,465
1971						1,109	102				1,302
1972						1,028	124				1,302
1973						1,191	109				1,401
1974						1,377	190				1,826
1975						1,383	188				1,837
1976						1,109	206				1,454
1977						1,575	84				1,873
1978						1,152	90				1,388
1979						1,293	214				1,782
1980						947	196				1,003
1981						1,156	103				1,509
1982						1,619	301				2,097
1983						1,244	161				1,544
1984						1,168	169				1,589
1985						1,194	229				1,979
1986						673	145				3,545
1987						600	94				3,686
1988						854	78				3,802
1989						854	81				4,029
1990						694	81				3,907
1991						874	67				5,087
1992						774	62				5,268
1993						450	29				5,197
1994						337	55				4,886
1995						290	290				6,402
1996						768	89				4,742
1997						348	72				4,697
1998						897	119				5,109
1999						704	131				5,193
2000						1,142	185				5,164
2001						858	213				4,989
2002						858	226				4,989
2003						550	82				4,554
2004						249	62				4,170
2005						480	45				4,215
2006						761	77				4,215
2007						612	82				3,895
2008						779	100				3,861
2009						814	155				4,837
2010						780	217				4,501
2011						651	136				4,733
						788	56				4,957
						699	118				4,944
						669	145				4,830
						247	66				4,796
<b>AVERAGES:</b>											
1962-69						502	87				513
1970-79						1,230	152				1,563
1980-89						1,015	156				1,563
1990-99						715	102				2,769
2000-2009						646	101				5,157
1983-2010						730	112				4,467
						238	54				4,415

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07/07/12

**MID-CONTINENT & ROCKY MOUNTAIN POPULATIONS  
OF SANDHILL CRANES  
POPULATION STATUS & HARVESTS**

D.E. SHARP S:\WKFILES\DATABOOK\CRANES.123

**Annual spring abundance indices for the Mid-Continent Population of sandhill cranes.**

YR	CENTRAL PLATTE RIVER VALLEY, NE				OTHER				ALL AREAS				
	OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT ANNUAL	3-YR AVG	OTHER NE	KS	TX	CO <sup>1</sup>	OK <sup>1</sup>	NM <sup>1</sup>	OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT ANNUAL
1974	162,600		9,000	1,900	3,200	0	400	0	0	0	177,100		
1975	223,600		2,300	900	tr	500	100	100	0	0	227,500		
1976	147,500		2,800	300	800	0	100	1,000	0	0	152,500		
1977	173,400		1,100	1,600	30,700	0	400	12,500	0	0	220,000		
1978	149,800	188,582	2,200	700	4,900	0	0	0	2,300	0	159,900	198,682	
1979		203,574	2,600	1,100	0	500	1,500	0	0	0	209,274		
1980	223,400	254,417	5,000	4,100	1,400	0	100	500	0	0	234,500	265,517	
1981		248,882	8,300	11,200	21,800	500	0	0	0	0	290,682		
1982	347,996	417,263	7,100	2,000	7,800	2,800	0	0	0	0	367,796	437,063	
1983	306,316	343,378	4,100	200	7,000	0	200	tr	0	0	317,816	354,378	
1984	222,710	261,802	340,814	18,100	900	800	0	1,100	0	0	243,610	282,702	358,214
1985	378,127	514,763	373,314	11,500	3,000	1,200	0	0	0	0	393,827	530,463	389,348
1986	317,025	353,040	376,535	1,000	200	2,100	0	0	0	0	320,325	356,340	389,835
1987	383,581	416,058	427,954	0	tr	400	0	0	0	0	383,981	416,458	434,420
1988	386,853	463,457	410,852	0	0	7,700	0	0	0	0	394,553	471,157	414,652
1989	391,353	391,995	423,837	100	1,000	800	0	0	0	0	393,253	393,895	427,170
1990	385,950	412,154	422,535	11,000	5,200	10,300	0	0	0	0	412,450	438,564	434,569
1991	297,831	340,645	381,598	100	800	200	0	0	0	0	296,931	341,745	391,131
1992	257,709	406,457	386,419	12,200	300	1,100	0	0	0	0	271,319	420,057	400,152
1993	253,799	378,883	375,328	16,800	37,750	13,500	0	0	0	0	321,849	446,933	402,912
1994	395,543	477,215	420,852	14,600	0	0	0	0	0	0	410,143	491,815	452,335
1995	273,376	326,181	394,093	30,400	0	0	0	6,700	0	0	303,776	356,581	431,776
1996	318,514	519,984	441,127	7,600	0	0	0	3,900	0	0	326,114	527,584	458,660
1997	350,932	534,630	460,265	16,200	100	0	0	0	0	0	367,292	550,930	478,385
1998	337,203	530,848	528,487	13,600	100	0	0	0	0	0	350,903	544,548	541,021
1999	219,794	284,858	450,112	3,500	100,000	0	0	0	0	0	323,294	388,358	494,612
2000	484,585	490,118	435,275	16,900	26,100	500	0	0	0	0	528,085	533,618	488,841
2001	387,336	413,498	396,158	10,500	42,300	3,500	0	0	0	0	443,636	469,798	463,925
2002	309,029	315,044	406,220	17,100	15,100	1,200	0	0	0	0	342,429	348,444	450,620
2003	300,918	348,023	358,855	24,800	4,100	3,800	0	0	0	0	333,618	380,723	399,655
2004	365,370	426,534	363,200	17,700	1,200	2,200	0	0	0	0	386,470	447,634	392,267
2005	412,285	491,915	422,157	27,100	2,900	8,700	0	0	0	0	450,985	530,615	452,981
2006	178,564	216,810	378,420	70,000	2,100	5,500	0	0	0	0	256,164	294,410	424,220
2007	307,094	384,118	364,281	20,400	3,600	5,900	0	0	0	0	336,984	414,018	413,014
2008	474,051	545,884	382,271	24,500	1,100	0	0	0	0	0	499,651	571,484	426,637
2009	457,436	565,257	498,420	29,900	tr	10,800	0	0	0	0	498,136	605,987	530,486
2010	455,104	691,534	600,892	17,600	1,300	28,000	0	0	0	0	502,004	738,434	638,625
2011	347,501	482,797	579,863	18,800	3,500	14,300	0	0	0	0	384,101	519,397	621,263
2012 <sup>2</sup>	259,576			12,800	6	1,100	0	0	0	0	273,482		

<sup>1</sup> CO, OK, and NM were eliminated from the Official Survey Area in 1985 by the CF CMU.

<sup>2</sup> Preliminary

**Estimated retrieved harvests of Mid-Continent sandhill cranes in the U.S.**

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	CENTRAL FLYWAY			OTHER SURVEY AREAS			TOTAL	U.S. TOTAL
										AZ <sup>4</sup>	NM <sup>4</sup>	AK <sup>2,3</sup>	MN <sup>5</sup>	TOTAL			
1975	91	16	911	2,122	142	86	6,123	6	9,497	1,094	1,094	637	637	10,591			
1976	106	28	858	52	200	12	6,122	14	7,333	637	637	471	471	8,030			
1977	39	18	1,456	4,078	410	47	6,094	9	12,151	12,151	12,151	239	239	12,622			
1978	106	36	1,089	2,777	389	19	5,720	10	10,146	10,146	10,146	517	517	10,385			
1979	129	14	1,170	2,733	397	19	5,917	0	10,379	10,379	10,379			10,896			
1980	68	16	1,019	2,245	363	130	6,305	6	10,152	10,152	10,152	809	809	10,961			
1981	92	11	907	2,395	397	78	6,245	9	10,134	20	10,134	383	383	403	10,537		
1982	49	21	335	2,469	535	212	4,295	0	7,916	62	7,916	1,160	1,160	1,222	9,138		
1983	70	28	354	6,471	373	177	5,471	15	12,959	17	12,959	1,540	1,540	1,557	14,516		
1984	85	15	414	4,367	433	139	5,811	7	11,271	23	11,271	1,986	1,986	2,009	13,280		
1985	82	7	334	4,650	416	101	7,184	2	12,776	48	12,776	1,197	1,197	1,245	14,021		
1986	33	1	250	6,563	392	99	5,149	0	12,487	108	12,487	539	539	831	13,318		
1987	86	15	159	5,334	957	99	6,117	3	12,770	127	12,770	318	318	1,281	14,051		
1988	68	18	372	3,815	1,061	100	7,330	8	12,772	172	12,772	1,241	1,241	1,540	14,312		
1989	25	33	319	4,656	1,003	194	7,400	9	13,639	126	13,639	138	138	809	14,448		
1990	87	44	377	6,804	698	165	9,885	1	18,041	114	18,041	259	259	1,291	19,332		
1991	224	31	593	4,580	604	128	6,916	3	13,079	72	13,079	677	677	1,084	14,163		
1992	84	103	505	4,654	478	141	6,455	13	12,453	139	12,453	54	54	833	13,286		
1993	112	95	506	6,985	826	110	8,769	0	18,005	113	18,005	178	178	492	18,497		
1994	143	767	56	357	6,235	1,167	239	7,233	4	16,201	86	16,201	648	648	887	17,088	
1995	208	990	156	673	7,017	1,091	170	10,322	1	20,628	124	20,628	111	111	1,047	21,675	
1996	91	933	58	332	6,539	1,066	166	7,816	10	17,111	114	17,111	78	78	1,397	18,508	
1997	168	1,167	45	248	6,545	600	189	10,800	4	19,756	171	19,756	45	45	870	20,852	
1998	64	1,362	17	258	7,967	645	454	9,054	10	19,831	114	19,831	55	55	1,211	21,042	
1999	56	1,275	29	321	5,748	879	184	8,469	8	16,969	92	16,969	101	101	193	17,162	
2000	363	15	311	5,081	562	374	8,208	10	15,504	166	15,504	100	100	985	1,251	16,755	
2001	257	43	297	5,173	713	478	6,989	7	15,000	154	15,000	106	106	936	1,196	16,196	
2002	294	23	342	4,852	490	160	7,837	22	13,087	197	13,087	92	92	844	1,133	14,220	
2003 <sup>1</sup>	230	942	49	617	4,564	200	11,560	7	18,335	155	18,335	162	162	331	648	18,983	
2004 <sup>1</sup>	92	856	54	350	3,967	441	67	8,715	4	14,546	192	14,546	167	167	435	794	15,340
2005 <sup>1</sup>	265	471	65	578	3,721	511	190	12,446	16	18,263	227	18,263	175	175	388	790	19,053
2006 <sup>1</sup>	96	1,341	12	682	3,906	538	202	10,834	20	17,631	201	17,631	245	245	314	760	18,391
2007 <sup>1</sup>	149	516	51	4,501	427	163	12,511	20	18,610	268	18,610	329	329	596	1,195	19,805	
2008 <sup>1</sup>	32	453	73	483	4,179	493	83	17,169	24	22,989	138	22,989	329	329	1,249	1,716	24,705
2009 <sup>1</sup>	58	447	34	584	4,436	737	96	8,882	8	15,282	305	15,282	332	332	245	882	16,164
2010 <sup>1</sup>	115	293	95	432	4,752	940	91	12,069	25	18,812	253	18,812	421	421	1,204	830	21,520
2011 <sup>1</sup>	68	908	51	297	3,733	808	64	8,493	20	14,442	151	14,442	366	366	335	765	16,059
<b>AVERAGES:</b>										<b>CURRENT YEAR PERCENT CHANGE FROM:</b>							
1975-79	94	23	1,097	2,352	308	37	5,995	8	9,913			78	192	592	592	10,505	
1980-89	66	17	446	4,297	593	133	6,131	6	11,688			124	127	1,024	1,024	12,858	
1990-99	124	1,014	63	417	6,317	805	8,570	5	17,206			200	204	779	779	18,159	
2000-09	184	772	42	467	4,238	495	198	10,516	14	16,925			140	140	632	632	17,961
1975-2010	120	839	40	534	4,584	595	154	8,173	9	14,627			180	180	792	792	15,662

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SACF Project species abundance surveys Status Reports Sandhill Cranes

1 Preliminary

<sup>2</sup> A proportion of the Alaskan harvest is composed of lesser sandhill cranes from the Pacific Coast Population

<sup>3</sup> Harvest data are from state harvest surveys for only the MCP portion of the state, except in 1977-81, 1986, 1991, and 1998-99 where

federal MQS state totals are prorated by the long-term percent MC cranes; data from 2000 forward are MC portion from HIP.

<sup>4</sup> The MC harvest for AZ and NM represents MC sandhill cranes that were harvested in RMP areas and are not represented in the CFCMC Sandhill Crane Federal Harvest Survey

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**Annual sport hunting mortality estimates for the Mid-Continent Population  
of sandhill cranes in North America.**

YR	SPORT HUNTING MORTALITY					
	Retrieved				Unretrieved No. Am. <sup>3</sup>	Total
	Central Flyway	Other Survey Total	Canada	Mexico <sup>2</sup>		
1975	9,497	1,094	5,906	1,650	3,615	21,762
1976	7,393	637	1,636	967	2,032	12,665
1977	12,151	471	367	1,299	2,440	16,728
1978	10,146	239	877	1,126	2,308	14,697
1979	10,379	517	3,799	1,470	2,807	18,972
1980	10,152	809	5,589	1,655	3,351	21,556
1981	10,134	403	2,966	1,350	2,724	17,577
1982	7,916	1,222	2,834	1,197	2,451	15,620
1983	12,959	1,557	3,088	1,760	3,501	22,865
1984	11,271	2,009	3,703	1,698	3,372	22,053
1985	12,776	1,245	5,139	1,916	3,520	24,596
1986	12,487	831	6,114	1,943	3,648	25,023
1987	12,770	1,281	5,144	1,920	3,379	24,493
1988	12,772	1,540	6,948	2,126	3,751	27,137
1989	13,639	809	4,975	1,942	3,626	24,992
1990	18,041	1,291	4,835	2,417	4,228	30,811
1991	13,079	1,084	5,318	1,948	3,438	24,867
1992	12,433	833	5,939	1,921	3,198	24,323
1993	18,005	492	2,915	2,141	3,362	26,915
1994	16,201	887	3,830	2,092	3,038	26,048
1995	20,628	1,047	5,827	2,750	4,161	34,413
1996	17,111	1,397	4,312	2,282	3,609	28,711
1997	19,766	1,086	5,900	2,675	4,211	33,638
1998	19,831	1,211	9,526	3,057	4,901	38,526
1999	16,969	193 <sup>4</sup>	8,400	2,556	3,947	32,065
2000	15,504	1,251	9,450	2,621	4,093	32,919
2001	15,000	1,196	8,786	2,498	4,013	31,493
2002	13,087	1,133	7,947	2,217	3,446	27,830
2003 <sup>1</sup>	18,335	648	9,585	2,857	4,246	35,671
2004 <sup>1</sup>	14,546	794	11,037	2,638	4,165	33,179
2005 <sup>1</sup>	18,263	790	9,876	2,893	4,512	36,334
2006 <sup>1</sup>	17,631	760	10,417	2,881	4,864	36,552
2007 <sup>1</sup>	18,610	1,195	11,786	3,159	4,904	39,654
2008 <sup>1</sup>	22,989	1,716	9,439	3,414	4,432	41,990
2009 <sup>1</sup>	15,282	882	4,165	2,033	3,100	25,462
2010 <sup>1</sup>	18,812	2,708	7,331	2,885	4,400	36,136
2011 <sup>1</sup>	14,442	1,617	10,432	2,649	4,006	33,146
<b>AVERAGES:</b>						
1975-79	9,913	592	2,517	1,302	2,641	16,965
1980-89	11,688	1,171	4,650	1,751	3,332	22,591
1990-99	17,206	1,036	5,680	2,384	3,809	30,032
2000-09	16,925	1,037	9,249	2,721	4,177	34,108
1975-2010	14,627	1,059	5,992	2,165	3,633	27,452
<b>CURRENT YEAR PERCENT CHANGE FROM:</b>						
2010	-23%	-40%	42%	-8%	-9%	-8%
1975-79	46%	173%	314%	103%	52%	95%
1980-89	24%	38%	124%	51%	20%	47%
1990-99	-16%	56%	84%	11%	5%	10%
2000-09	-15%	56%	13%	-3%	-4%	-3%
1975-2010	-1%	53%	74%	22%	10%	21%

<sup>1</sup> Preliminary

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<sup>2</sup> Unknown harvests (Mexico) were assumed to be 10% of harvests in the U.S. and Canada.

<sup>3</sup> Unretrieved kill as reported by hunters is used for the Central Flyway; for the remainder of harvest areas, it is assumed to be 20% of retrieved harvests.

<sup>4</sup> There is no estimate available for AK in that year.

**Estimated retrieved harvests of the Rocky Mountain Population of sandhill cranes.**

YR	UT	NM	AZ	WY	MT	ID	TOTAL
1981			20				20
1982			9	143			152
1983			35	154			189
1984			33	101			134
1985			40	138			178
1986			23	195			218
1987			60	190			250
1988		310	40	128			478
1989	54	483	51	125			713
1990	35	79	9	58			181
1991	48	47	44	101			240
1992		147	39	168	42		396
1993	28	297	61	115	45		546
1994	34	416	27	150	40		667
1995	27	270	33	77	41		448
1996	32	236	27	84	49	20	448
1997	30	114	22	82	62	136	446
1998	34	180	37	93	59	135	538
1999	54	198	21	124	71	190	658 <sup>1</sup>
2000	69	257	37	163	91	193	810 <sup>2</sup>
2001	77	288	26	142	87	278	898
2002	60	164	42	132	51	194	643
2003	57	169	34	72	50	146	528
2004	53	189	35	124	51	142	594
2005	62	236	50	116	49	189	702
2006	87	327	10	194	54	235	907
2007	103	276	43	138	73	187	820
2008	101	379	24	162	85	185	936
2009	149	603	67	195	124	254	1,392
2010	190	547	56	182	108	253	1,336
2011 <sup>3</sup>	154	522	37	166	90	293	1,262

**AVERAGES:**

1981-89	54	397	35	147			259
1990-99	36	198	32	105	51	120	457
2000-09	82	289	37	144	72	200	823
1981-2010	66	270	35	133	65	182	549

**CURRENT YEAR PERCENT CHANGE FROM:**

2010	-19%	-5%	-34%	-9%	-17%	16%	-6%
1981-89		32%	7%	13%			387%
1990-99	330%	163%	16%	58%	76%	144%	176%
2000-09	88%	81%	1%	15%	26%	46%	53%
1981-2010	134%	93%	5%	25%	39%	61%	130%

<sup>1</sup> RMP Sandhill cranes (40) were also taken as part of research project in the San Luis Valley, CO

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<sup>2</sup> RMP Sandhill cranes (20) were also taken as part of research project in the San Luis Valley, CO

<sup>3</sup> Harvest includes crippling loss.

**Spring population indices for Rocky Mountain sandhill cranes, 1984-96.**

YR	SAN LUIS VALLEY, COLORADO					SURVEY COND.
	RAW COUNT	ADJ. FOR EST. BIAS <sup>1</sup>	ADJ. TO REM. LES. <sup>2</sup>	OTHER AREAS	INDEX	
1984	10,962	14,488	13,562	550	14,112	POOR
1985	18,393	21,773	20,382	0	20,382	GOOD
1986	14,031	14,031	13,135	20	13,155	POOR
1987	13,561	15,661	14,660	0	14,660	POOR
1988	17,510	17,510	16,381	22	16,403	POOR
1989	17,302	18,389	17,004	0	17,004	GOOD
1990	20,851	24,593	21,221	275	21,496	GOOD
1991	19,990	18,405	16,045	175	16,220	GOOD
1992	23,516	23,516	19,999	9	20,008	GROUND
1993	17,576	17,576	16,478	1,260	17,738	POOR
1994	17,229	16,036	15,063	203	15,266	FAIR
1995	25,276	23,390	20,229	0	20,229	GOOD
1996	23,019	26,379	22,737	1,010	23,747	GOOD

<sup>1</sup> Raw estimate adjusted by photography for estimation bias

<sup>2</sup> Population estimate adjusted to remove the number of lesser sandhill cranes (non-RMP cranes).

**Table 10. Fall pre-migration population indices for Rocky Mountain sandhill cranes.**

YR	UT	CO	ID	WY	MT	TOTAL	3-YR AVG
1987	1,578	1,443	10,686	2,327	1,447	17,481	
1992	2,810	3,181	5,801	2,248	5,264	19,304	
1995	1,528	2,284	6,864	1,671	3,681	16,028	
1996	1,849	1,255	8,334	2,526	2,974	16,938	
1997 <sup>1, 2</sup>	2,450	1,604	8,132	2,255	3,595	18,036	17,001
1998	2,185	1,273	8,067	3,162	3,415	18,102	17,692
1999	2,292	1,102	8,761	4,205	3,141	19,501	18,546
2000	2,416	749	9,337	3,890	3,598	19,990	19,198
2001	1,522	666	7,160	2,626	4,585	16,559	18,683
2002	1,869	1,355	7,698	3,038	4,843	18,803	18,451
2003	2,546	745	7,822	3,446	4,964	19,523	18,295
2004	2,239	1,410	7,152	3,072	4,637	18,510	18,945
2005	2,646	1,052	7,668	3,911	5,588	20,865	19,633
2006 <sup>3</sup>						NS	19,633
2007 <sup>4</sup>	2,401	1,743	8,262	3,907	6,509	22,822	20,732
2008 <sup>5</sup>	3,708	1,080	6,123	3,826	6,419	21,156	21,614
2009	2,283	1,162	6,934	3,613	6,329	20,321	21,433
2010	3,242	985	5,776	3,726	7,335	21,064	20,847
2011	1,498	1,347	5,029	2,978	6,642	17,494	19,626

<sup>1</sup> Incomplete survey efforts in years prior might have resulted in lower estimates; the official count begins in 1997.

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<sup>2</sup> In October 1997, a special survey was also conducted in the SLV, Colorado and other areas, which resulted in a total of 27,090 Rocky Mountain and Mid-Continent cranes being counted.

<sup>3</sup> In 2006, the survey was not conducted due to mechanical issues with the survey plane. The 3-yr Avg for 2006 is calculated using 2003-05.

<sup>4</sup> The 3-yr average for 2007 was calculated using 2004, 2005, and 2007 because there was no survey in 2006.

<sup>5</sup> The 3-yr average for 2008 was calculated using 2005, 2007, and 2008 because there was no survey in 2006.

# **CENTRAL FLYWAY**

# **U.S. DUCK HUNTING FRAMEWORKS**

*D.E. SHARP S:\WKFILES\DATABOOK\TITLES\DKFRAME.123*

YEAR	WEST TIER STATES <sup>1</sup>				EAST TIER STATES <sup>2</sup>				MISSISSIPPI FLYWAY								
	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS					
1961	Oct 01	Jan 08	60	5.5	3.4-6	Oct 01	Jan 08	60	5/5	3.6	Oct 01	Jan 08	60	5/5	18		
1962	Oct 06	Jan 06	75	5.5	3.6	Oct 01	Jan 13	75	5/5	3.6	Oct 01	Jan 13	60	5/5	18		
1963	Oct 05	Jan 05	90	5.5	5.6	Oct 01	Jan 15	75	5/5	5.6	Oct 01	Jan 15	70	5/5	18		
1964	Oct 10	Jan 10	90	5.5	5.6	Oct 01	Jan 15	75	5/5	5.6	Oct 01	Jan 15	70	5/5	18		
1965	Oct 01	Jan 15	75	5.5	5.6	Oct 01	Jan 15	75	5/5	5.6	Oct 01	Jan 15	70	5/5	18		
1966	Oct 01	Jan 15	75	5.5	5.6	Oct 01	Jan 15	75	5/5	5.6	Oct 01	Jan 15	70	5/5	18		
1967	Sept 30	Jan 14	56	5.6	Sept 30	Jan 14	75	5/5	5.6	Sept 30	Jan 14	70	5/5	18			
1968	Oct 01	Jan 15	75	2/2	5.6	Oct 01	Jan 15	75	5/5	5.6	Sept 28	Jan 12	70	5/5	18		
1969	Oct 01	Jan 15	86	24	5.6	Oct 01	Jan 15	86	5/5	5.6	Sept 27	Jan 11	21	5/5	18		
1970	Oct 01	Jan 17	90	24	5.6	Oct 01	Jan 17	75	5/5	5.6	Oct 01	Jan 24	21	70	5/5	18	
1971	Oct 01	Jan 16	90	24	5.6	Oct 01	Jan 16	75	5/5	5.6	Oct 01	Jan 23	23	70	5/5	18	
1972	Oct 01	Jan 24	93	24	5.6	Oct 01	Jan 24	72	4/4	5.6	Oct 01	Jan 20	23	70	5/5	18	
1973	Sept 29	Jan 20	93	24	5.6	Sept 29	Jan 20	72	5/5	5.6	Oct 01	Jan 20	23	70	5/5	18	
1974	Sept 28	Jan 19	93	24	5.6	Sept 28	Jan 19	72	5/5	5.6	Oct 01	Jan 20	23	70	5/5	18	
1975	Oct 04	Jan 18	93	24	5.6	Oct 04	Jan 18	72	5/5	5.6	Oct 01	Jan 20	23	70	5/5	18	
1976	Oct 02	Jan 23	93	24	5.6-9	Oct 02	Jan 23	72	5/5	5	Oct 01	Jan 20	23	70	5/5	18	
1977	Oct 01	Jan 22	93	24	5.6-9	Oct 01	Jan 22	86	5/5	5	Oct 01	Jan 20	23	70	5/5	18	
1978	Sept 30	Jan 21	93	24	5.6-9	Sept 30	Jan 21	86	5/5	5	Oct 01	Jan 20	23	70	5/5	18	
1979	Sept 29	Jan 20	93	24	6.9	Sept 29	Jan 20	86	5/5	5	Sept 29	Jan 20	23	70	5/5	18	
1980	Oct 04	Jan 18	8	93	24	6.10	Oct 04	Jan 18	86	5/10	5/10	Oct 04	Jan 20	23	70	5/10	18
1981	Oct 03	Jan 17	8	93	24	6.10	Oct 03	Jan 17	86	5/10	5/10	Oct 03	Jan 20	23	70	5/10	18
1982	Oct 02	Jan 23	8	93	24	6.10	Oct 02	Jan 23	86	5/10	5/10	Oct 02	Jan 20	23	70	5/10	18
1983	Oct 01	Jan 22	8	93	24	6.10	Oct 01	Jan 22	86	5/10	5/10	Oct 01	Jan 20	23	70	5/10	18
1984	Sept 29	Feb 12	8	93	24	6.10	Sept 29	Feb 12	86	5/10	5/10	Sept 29	Jan 20	23	70	5/10	18
1985	Sept 28	Feb 16	11	93	5/10	Sept 28	Feb 16	86	5/10	5/10	Sept 28	Jan 20	23	70	5/10	18	
1986	Oct 04	Feb 15	11	93	5/10	Oct 04	Feb 15	86	5/10	5/10	Oct 04	Jan 20	23	70	5/10	18	
1987	Oct 03	Feb 14	11	93	5/10	Oct 03	Feb 14	86	5/10	5/10	Oct 03	Jan 17	19/22.3	70	5/10	18	
1988	Oct 01	Feb 14	11	95	5/10	Oct 01	Feb 14	86	5/10	5/10	Oct 01	Jan 22	23.24	70	5/10	18	
1989	Sept 30	Feb 18	11	95	5/10	Sept 30	Feb 18	100	5/10	5/10	Sept 30	Jan 21	23.24	80	7/14	18	
1990	Sept 29	Feb 17	11	100	5/10	Sept 29	Feb 17	86/100	5/10/71.4	5/10/71.4	Sept 29	Jan 20	23	80	7/14	18	
1991	Sept 28	Feb 16	11	107	5/10	Sept 28	Feb 16	86/100	5/10/71.4	5/10/71.4	Sept 28	Jan 31	23	80	7/14	18	
1992	Oct 03	Feb 14	11	107	5/10	Oct 03	Feb 14	107	10/20	10/20	Oct 03	Jan 31	23	80	7/14	18	
1993	Oct 02	Feb 13	11	107	5/10	Oct 02	Feb 13	107	10/20	10/20	Oct 02	Jan 14	14	80	7/14	18	
1994	Oct 01	Feb 28	12	107	5/10	Oct 01	Feb 28	7	10/20	10/20	Oct 01	Feb 14	107	10/20	18		
1995	Sept 30	Mar 10	17	107	5/10	Sept 30	Mar 10	13	107	10/20	Oct 01	Feb 14	25	10/20	18		
1996	Sept 28	Mar 10	107	1040	Sept 28	Mar 10	14	107	10/40	Sept 28	Mar 10	107	10/30	18			
1997	Oct 04	Mar 10	107	1040	Oct 04	Mar 10	14	107	10/40	Oct 04	Mar 10	107	10/30	18			
1998	Oct 03	Mar 10	107	20/hone	Oct 03	Mar 10	15	107	20/hone	Oct 03	Mar 10	107	20/hone	18			
1999	Oct 02	Mar 10	107	20/hone	Oct 02	Mar 10	15	107	20/hone	Oct 02	Mar 10	107	20/hone	18			
2000	Sep 30	Mar 10	107	20/hone	Sep 30	Mar 10	15	107	20/hone	Sep 30	Mar 10	107	20/hone	18			
2001	Sep 29	Mar 10	107	20/hone	Sep 29	Mar 10	15	107	20/hone	Sep 29	Mar 10	107	20/hone	18			
2002	Sep 21	Mar 10	107	20/hone	Sep 21	Mar 10	15	107	20/hone	Sep 21	Mar 10	107	20/hone	18			
2003	Sep 27	Mar 10	107	20/hone	Sep 27	Mar 10	15	107	20/hone	Sep 27	Mar 10	107	20/hone	18			
2004	Sep 25	Mar 10	107	20/hone	Sep 25	Mar 10	15	107	20/hone	Sep 25	Mar 10	107	20/hone	18			
2005	Sep 24	Mar 10	107	20/hone	Sep 24	Mar 10	15	107	20/hone	Sep 24	Mar 10	107	20/hone	18			
2006	Sep 23	Mar 10	107	20/hone	Sep 23	Mar 10	15	107	20/hone	Sep 23	Mar 10	107	20/hone	18			
2007	Sep 22	Mar 10	107	20/hone	Sep 22	Mar 10	15	107	20/hone	Sep 22	Mar 10	107	20/hone	18			
2008	Sep 27	Mar 10	107	20/hone	Sep 27	Mar 10	15	107	20/hone	Sep 27	Mar 10	107	20/hone	18			
2009	Sep 26	Mar 10	107	20/hone	Sep 26	Mar 10	15	107	20/hone	Sep 26	Mar 10	107	20/hone	18			
2010	Sep 25	Mar 10	107	20/hone	Sep 25	Mar 10	15	107	20/hone	Sep 25	Mar 10	107	20/hone	18			
2011	Sep 24	Mar 10	107	20/hone	Sep 24	Mar 10	15	107	20/hone	Sep 24	Mar 10	107	20/hone	18			

1 West Tier States = MT/WY/CO/NM/TX/W. Goose Zone)

2 East Tier States = ND/SD/NE/OK/KS/IE/Goose Zone)

3 The season is closed on Ross's geese

4. The season is closed on snow geese in Wyoming

5. The bag possession limit on Ross' geese is 1/1.

6. Aggregate goose limit

7. Excluding ND, SD, and NE, where the ending date is Feb 14

8. Excluding NM/AR/GV, where the ending date is 5/5 for NM and the western goose zone, TX

9. The bag/poss limit for light geese is 5/5 for NM and the western goose zone, TX

10. The bag/poss limit for light geese is 5/10 for NM, AR, TN, MS and LA; Jan 31

11. Excluding NM/MGV, where the ending date is Feb 12

12. Excluding MT and WY, where the ending date is Feb 12

13. Excluding ND, SD, and NE, north of the Platte R. and the Rainwater Basin Zone

where the ending date is Feb 18

14. Excluding NE Rainwater Basin Zone where the ending date is Feb 16

15. Excluding NE Rainwater Basin Zone where the ending date is Feb 16

16. Excluding MT and WY, north of 40° where the ending date is Feb 18

17. Excluding MT and WY, north of 40° where the ending date is Feb 18

18. Aggregate goose bag limit - all may be light geese

19. Closing date for AR is Jan 31

20. Season closed in IA/LA, Shrikey and Washington Co, MS

21. Closing date in IA/LA is Feb 15

22. Opening date in IA/LA is Oct 15

23. Closing date for LA is Feb 14

24. Closing date in KY, AR, TN, MS and AL is Jan 31

25. States and portions of states south of LA have an ending date of Mar 10

26. States and portions of states south of LA have an ending date of Mar 10

27. States and portions of states south of LA have an ending date of Mar 10

28. States and portions of states south of LA have an ending date of Mar 10

29. States and portions of states south of LA have an ending date of Mar 10

30. States and portions of states south of LA have an ending date of Mar 10

31. States and portions of states south of LA have an ending date of Mar 10

32. States and portions of states south of LA have an ending date of Mar 10

33. States and portions of states south of LA have an ending date of Mar 10

34. States and portions of states south of LA have an ending date of Mar 10

35. States and portions of states south of LA have an ending date of Mar 10

36. States and portions of states south of LA have an ending date of Mar 10

37. States and portions of states south of LA have an ending date of Mar 10

38. States and portions of states south of LA have an ending date of Mar 10

39. States and portions of states south of LA have an ending date of Mar 10

40. States and portions of states south of LA have an ending date of Mar 10

41. States and portions of states south of LA have an ending date of Mar 10

42. States and portions of states south of LA have an ending date of Mar 10

43. States and portions of states south of LA have an ending date of Mar 10

44. States and portions of states south of LA have an ending date of Mar 10

45. States and portions of states south of LA have an ending date of Mar 10

46. States and portions of states south of LA have an ending date of Mar 10

47. States and portions of states south of LA have an ending date of Mar 10

48. States and portions of states south of LA have an ending date of Mar 10

49. States and portions of states south of LA have an ending date of Mar 10

50. States and portions of states south of LA have an ending date of Mar 10

51. States and portions of states south of LA have an ending date of Mar 10

52. States and portions of states south of LA have an ending date of Mar 10

53. States and portions of states south of LA have an ending date of Mar 10

54. States and portions of states south of LA have an ending date of Mar 10

55. States and portions of states south of LA have an ending date of Mar 10

56. States and portions of states south of LA have an ending date of Mar 10

57. States and portions of states south of LA have an ending date of Mar 10

58. States and portions of states south of LA have an ending date of Mar 10

59. States and portions of states south of LA have an ending date of Mar 10

60. States and portions of states south of LA have an ending date of Mar 10

61. States and portions of states south of LA have an ending date of Mar 10

62. States and portions of states south of LA have an ending date of Mar 10

63. States and portions of states south of LA have an ending date of Mar 10

64. States and portions of states south of LA have an ending date of Mar 10

65. States and portions of states south of LA have an ending date of Mar 10

66. States and portions of states south of LA have an ending date of Mar 10

67. States and portions of states south of LA have an ending date of Mar 10

68. States and portions of states south of LA have an ending date of Mar 10

69. States and portions of states south of LA have an ending date of Mar 10

70. States and portions of states south of LA have an ending date of Mar 10

71. States and portions of states south of LA have an ending date of Mar 10

72. States and portions of states south of LA have an ending date of Mar 10

73. States and portions of states south of LA have an ending date of Mar 10

**U.S. Federal Frameworks for the Hunting of Light Geese 1961-2011**

YEAR	PACIFIC FLYWAY <sup>1</sup>			CENTRAL FLYWAY <sup>2</sup>			MISSISSIPPI FLYWAY			ATLANTIC FLYWAY			
	OPEN	CLOSE	DAY'S BAG/POSS	OPEN	CLOSE	DAY'S BAG/POSS	OPEN	CLOSE	DAY'S BAG/POSS	OPEN	CLOSE	DAY'S BAG/POSS	
1961	Oct 7	Jan 7	75	6/6	Closed <sup>3</sup>	Oct 01	Jan 08	60	5/5	3/4/6	Oct 01	Jan 08	60
1962	Oct 6	Jan 6	75	6/6	Closed <sup>3</sup>	Oct 05	Jan 06	75	5/5	3/6	Oct 01	Jan 13	60
1963	Oct 5	Jan 5	90	6/6	1/1	Oct 05	Jan 05	90	5/5	5/6	Oct 01	Jan 15	70
1964	Oct 10	Jan 10	90	6/6	1/1	Oct 10	Jan 10	90	5/5	5/6	Oct 01	Jan 15	70
1965	Oct 9	Jan 9	90	6/6	1/1	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70
1966	Oct 8	Jan 8	90	6/6	1/1	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70
1967	Oct 7	Jan 14	90	6/6	1/1	Sep 30	Jan 14	75	5/5	5/6	Sep 30	Jan 14	70
1968	Oct 6	Jan 12	93	6/6	1/1	Oct 01	Jan 15	75	5/5	5/6	Sep 28	Oct 01	5/5
1969	Oct 4	Jan 11	93	6/6	1/1	Oct 01	Jan 15	86	2/4	5/6	Sep 27	Jan 11	21
1970	Oct 3	Jan 17	93	6/6	1/1	Oct 01	Jan 17	90	2/4	5/6	Oct 01	Jan 24	21
1971	Oct 2	Jan 16	93	6/6	1/1	Oct 01	Jan 16	90	2/4	5/6	Oct 01	Jan 23	20
1972	Oct 1	Jan 20	93	6/6	1/1	Oct 01	Jan 24	93	2/4	5/6	Oct 01	Jan 20	23
1973	Sep 29	Jan 20	93	6/6	1/1	Sep 29	Jan 20	93	2/4	5/6	Sep 30	Jan 23	70
1974	Sep 28	Jan 19	93	6/6	1/1	Sep 28	Jan 19	93	2/4	5/6	Sep 28	Jan 23	70
1975	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Jan 18	93	2/4	5/6	Oct 04	Jan 18	75
1976	Oct 2	Jan 23	93	3/6	1/1	Oct 02	Jan 23	93	2/4	5/6	Oct 02	Jan 23	72
1977	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Jan 22	93	2/4	5/6	Oct 01	Jan 22	86
1978	Sep 30	Jan 21	93	3/6	1/1	Sep 30	Jan 21	93	2/4	5/6	Sep 30	Jan 21	86
1979	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Jan 20	93	2/4	5/6	Sep 29	Jan 20	72
1980	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Jan 18	8	2/4	5/6	Oct 04	Jan 18	86
1981	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Jan 17	93	2/4	5/6	Oct 03	Jan 17	86
1982	Oct 2	Jan 23	93	3/6	1/1	Oct 02	Jan 23	8	2/4	5/6	Oct 02	Jan 23	86
1983	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Jan 22	8	2/4	5/6	Oct 01	Jan 22	86
1984	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Feb 12	93	2/4	6/10	Sep 29	Feb 12	86
1985	Sep 28	Jan 19	93	3/6	1/1	Sep 28	Feb 16	93	2/4	6/10	Sep 28	Feb 16	86
1986	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Feb 15	11	5/10	Oct 04	Feb 15	86	
1987	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Feb 14	11	5/10	Oct 03	Feb 14	86	
1988	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Feb 14	11	5/10	Oct 01	Feb 14	86	
1989	Sep 30	Jan 21	93	3/6	1/1	Sep 30	Feb 18	11	5/10	Sep 30	Feb 18	100	
1990	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Feb 12	93	2/4	6/10	Sep 29	Feb 17	86
1991	Sep 28	Jan 19	93	3/6	1/1	Sep 28	Feb 16	11	5/10	Sep 28	Feb 16	86	
1992	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Feb 14	11	5/10	Oct 03	Feb 14	107	
1993	Oct 2	Jan 23	100	3/6	1/1	Oct 02	Feb 13	12	5/10	Oct 02	Feb 13	107	
1994	Oct 1	Jan 20	100	3/6	1/1	Oct 01	Feb 28	12	5/10	Oct 01	Feb 28	7	
1995	Oct 1	Jan 21	100	3/6	1/1	Sep 30	Mar 10	17	10/7	Sep 30	Mar 10	13	
1996	Sep 29	Jan 19	100	3/6	1/1	Sep 29	Feb 10	10	5/10	Sep 29	Feb 10	107	
1997	Oct 4	Jan 18	100	3/6	1/1	Oct 04	Mar 10	107	10/40	Oct 04	Mar 10	14	
1998	Oct 3	Jan 17	100	3/6	1/1	Oct 03	Mar 10	107	20/none	Oct 03	Mar 10	15	
1999	Oct 2	Jan 23	100	3/6	1/1	Oct 02	Mar 10	107	20/none	Oct 02	Mar 10	15	
2000	Sep 30	Jan 21	100	3/6	1/1	Sep 30	Mar 10	107	20/none	Sep 30	Mar 10	15	
2001	Sep 29	Jan 20	100	3/6	1/1	Sep 29	Mar 10	107	20/none	Sep 29	Mar 10	107	
2002	Sep 21	Jan 19	100	3/6	1/1	Sep 28	Mar 10	107	20/none	Sep 21	Mar 10	107	
2003	Oct 4	Jan 25	100	3/6	1/1	Oct 04	Mar 10	107	20/none	Oct 04	Mar 10	107	
2004	Sep 25	Jan 30	27	100	3/6	Sep 27	Mar 10	107	20/none	Sep 27	Mar 10	107	
2005	Oct 01	Jan 29	27	100	4/8	Sep 25	Mar 10	107	20/none	Sep 25	Mar 10	107	
2006	Sep 30	Jan 28	27	100	4/8	Sep 24	Mar 10	107	20/none	Sep 24	Mar 10	107	
2007	Sep 29	Jan 27	27	100	4/8	Sep 23	Mar 10	107	20/none	Sep 23	Mar 10	107	
2008	Oct 04	Mar 10	28	107	6/12	Sep 27	Mar 10	107	20/none	Sep 27	Mar 10	107	
2009	Oct 03	Mar 10	28	107	6/12	Sep 26	Mar 10	107	20/none	Sep 26	Mar 10	107	
2010	Oct 02	Mar 10	28	107	6/12	Sep 25	Mar 10	107	20/none	Sep 25	Mar 10	107	
2011	Oct 01	Mar 10	28	107	6/12	Sep 24	Mar 10	107	20/none	Sep 24	Mar 10	107	

1. Alaska frameworks are separate. Generally 105-107 days with a total quota of 6.

2. East ND/SD/NK/SD/NK/TX (E, West MT/WY/CO/MN/TX/W)

3. The season is closed on Ross' geese.

4. The season is closed on snow geese in Wyoming.

5. The bag/possession limit on Ross' geese is 1/1.

6. Agri/gate goose limit.

7. Excluding ND, SD, and NE, where the ending date is Feb 14 (1981). Feb 12 (1983).

8. Excluding NM/MRGV, where the ending date is Feb 14 (1981) for NM and the western goose zone, TX.

9. The bag/poss limit for light geese is 5/6 for NM and the western goose zone, TX.

10. The bag/poss limit for light geese is 1/0 for NM and the western goose zone, TX.

11. Excluding NM/MRGV, where the ending date is Feb 14 (1981).

12. Excluding NT and WV, where the ending date is Feb 12.

13. Excluding ND, SD and NE, north of the Platte R., and the Rainwater Basin Zone, where the ending date is Feb 18.

14. Excluding NE Rainwater Basin Zone where the ending date is Feb 16.

15. Excluding NE Rainwater Basin Zone where the ending date is Feb 01.

16. The bag/poss limit for Ross' geese is 1/0.

17. Excluding NV and WV, north of 48° where the ending date is Feb 18.

18. Aggregate goose bag limit - all may be light geese.

19. Closing date for AT is Jan 31.

20. Season closed in Isaguania, Sharkey and Washington Co., MS.

21. Closing date for LA is Feb 15.

22. Opening date for LA is Feb 15.

23. Closing date for LA is Feb 14.

24. Closing date in KY, AR, TN, MS and AL is Jan 31.

25. States and portions of states south of 48° have an ending date of Mar 10.

26. NJ, DE, MD, NC, PA, SC, and VA closing date of 5/10 followed; SC chose 2/10 closing.

27. The interior States (AZ, CO, ID, MT, NV, NM, UT, WV) start date is Saturday closest to Sep 24 and the daily bag is 10.

28. The interior States (AZ, CO, ID, MT, NV, NM, UT, WV) start date is Saturday closest to Sep 24 and the daily bag is 10.

## SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR DUCK HUNTING, 1999-2011

	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Beginning Shooting Time	1/2 hr. before sunrise												
Ending Shooting Time	Sunset												
Opening Date	Oct 2	Sep 30	Sep 29	Sep 21	Sep 27	Sep 25	Sep 24	Sep 23	Sep 22	Sep 27	Sep 26	Sep 25	Sep 24
Closing Date	Jan 23	Jan 21	Jan 20	Jan 26	Jan 25	Jan 30	Jan 29	Jan 28	Jan 27	Jan 25	Jan 31	Jan 30	Jan 29
Season Length	74 +23 HP <sup>1</sup>												
Daily Bag/Possession	6 12												

Species/Sex Restrictions	
Mallard (M)	5
Mallard (F)	2
Pintail	1
H. Merganser <sup>2</sup>	1
Canvasback	1
Redhead	2
Scaup	3
Wood Duck	2
Mottled Duck	1

<sup>1</sup> HP = High Plains Management Unit: Additional days must be taken no earlier than the Saturday closest to December 10.

<sup>2</sup> The merganser bag can be separated from the duck bag.

<sup>3</sup> Hunter's Choice states include: KS, ND, SD, TX, and WY. In these states the daily bag limit is 5 ducks, with species and sex restrictions as follows: 2 scaup, 2 redheads, and 2 wood ducks; and only 1 duck from the following group—hen mallard, mottled duck, pintail, canvasback.

<sup>4</sup> Closed for the 1st 5 days of the season.

FILE: S:\CFC\_PROJECTS\REGULATIONS\IFRA\WORKS\idk\ram\ALL.xls

**SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR SANDHILL CRANE HUNTING, 2006-2011**

YEAR	Participating States	Beg. Shooting Time	Ending Shooting Time	Daily Bag/ Possession	Opening Date	Closing Date	Season Length	Season Length
2006	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Sep 30 Nov 04	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Jan 04 Feb 04	58 93	58
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	93 93	Feb 04 Oct 28	93 93	93
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Jan 28 Nov 19	58 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 37, 58	Oct 22, Nov 12 Oct 22, Nov 12	58, 37 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 19 Oct 1, Oct 6, Nov 12	58 16, 21, 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 93	Jan 12 Jan 31	58 93	93
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 06 Dec 02	58 58	58
2007	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 07 Jan 03	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Feb 04 Feb 27	93 93	93
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 22 Oct 21, Nov 11	58 58	58
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Nov 18 Sep 18	58, 37 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 21, Nov 11 Oct 21, Nov 11	58 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 18 Sep 30, Oct 5, Nov 11	58 16, 21, 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 07 Jan 03	58 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Feb 04 Feb 27	93 93	93
	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 27 Jan 31	58 93	93
2008	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 30 Jan 01	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 26, Nov 16 Nov 23	58, 37 58	58
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 08 Feb 08	93 93	93
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 27 Jan 27	58 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 23 Feb 27	58 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 27 Sep 27	58 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 23 Sep 13	58 16, 21, 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 23, Nov 09 Oct 23, Nov 09	58 16, 21, 58	58
2008	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 05 Oct 27	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 08 Feb 27	58, 37 58	58
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 27 Sep 27	58 58	58
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 23 Oct 26, Nov 16	58 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 27 Jan 27	58 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 23 Sep 27	58 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 23 Oct 26, Nov 16	58 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 23 Jan 31	58 93	93
	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 23 Sep 30	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 23 Jan 01	58 58	58
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 28 Feb 08	93 93	93
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 27 Jan 27	58 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 23 Sep 27	58 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Oct 20 Sep 20	58 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 26, Nov 16 Oct 26, Nov 16	58 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 26, Nov 16 Oct 26, Nov 16	58 58	58
2009	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 11 Jan 07	58 58	58
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 07 Feb 07	58 93	93
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 24 Oct 24	58 93	93
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 22 Jan 31	58 93	93
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 25, Nov 15 Oct 25, Nov 15	58, 37 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 22 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 29 Jan 07	58 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 29 Jan 07	58 58	58
2010	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 07 Jan 24	58 93	93
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 22 Jan 24	58 93	93
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 25, Nov 15 Oct 25, Nov 15	58, 37 58	58
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Nov 22 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 26 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Oct 27 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 28 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 29 Oct 9, Oct 4, Nov 15	58 16, 21, 58	58
2011	CF portions of CO (excluding San Luis Valley&NP) <sup>3</sup> KS	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Nov 09 Jan 21	58 93	93
	Portions of TX <sup>2</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Nov 09 Jan 22	58 93	93
	Portions of OK	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 10, Oct 3, Nov 14 Oct 10, Oct 3, Nov 14	58 16, 21, 58	58
	CF Portions of MT <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 11, Oct 3, Nov 14 Oct 11, Oct 3, Nov 14	58 16, 21, 58	58
	Portions of ND	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	58 58	Oct 12, Oct 3, Nov 14 Oct 12, Oct 3, Nov 14	58 16, 21, 58	58
	Portions of SD	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Oct 13, Oct 3, Nov 14 Oct 13, Oct 3, Nov 14	58 16, 21, 58	58
	Portions of WY <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 58 58	Oct 14, Oct 3, Nov 14 Oct 14, Oct 3, Nov 14	58 16, 21, 58	58
	Portions of NM <sup>3</sup>	sunset 1/2 hr. before sunrise	3/6 3/6	Feb 28 Feb 28	37, 93 93	Oct 15, Oct 3, Nov 14 Oct 15, Oct 3, Nov 14	58 16, 21, 58	58

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<sup>1</sup> Additional experimental seasons offered

<sup>2</sup> Season covers dates selected >1 zone

# **ADAPTIVE HARVEST MANAGEMENT CRITERIA**

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### 1995-96 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 1995-96 hunting season.

MALLARDS <sup>2</sup>	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5	M	M	M	L	L	L	L	L	L	L
5.0	L	L	L	L	L	L	L	L	L	L
5.5	L	L	L	L	L	L	L	L	L	L
6.0	L	L	L	L	L	L	L	L	L	L
6.5	L	L	L	L	L	L	L	L	L	L
7.0	L	L	L	L	L	L	L	L	L	L
7.5	L	L	L	L	L	L	L	L	L	L
8.0	L	L	L	L	L	L	L	L	L	L
8.5	L	L	L	L	L	L	L	L	L	L
9.0	L	L	L	L	L	L	L	L	L	L
9.5	L	L	L	L	L	L	L	L	L	L
10.0	L	L	L	L	L	L	L	L	L	L
10.5	L	L	L	L	L	L	L	L	L	L
11.0	L	L	L	L	L	L	L	L	L	L

<sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. The 1995-96 optimal choice is indicated by grey-shaded cell (1995 values = 9.32 million mallards and 3.89 million ponds).

<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.

<sup>3</sup> Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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### 1997-98 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 1997-98 hunting season.

MALLARDS <sup>2</sup>	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5										
5.0										
5.5										
6.0										
6.5										
7.0										
7.5										
8.0										
8.5										
9.0										
9.5										
10.0										
10.5										
11.0										

<sup>1</sup> Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1997-98 optimal choice is indicated by grey-shaded cell (1997 values = 10.97 million mallards and 5.06 million ponds).

<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.

<sup>3</sup> Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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### 1996-97 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 1996-97 hunting season.

MALLARDS <sup>2</sup>	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5							R	R	R	
5.0							R	R	R	
5.5							R	M	M	
6.0	R	R	R	R	R	R	M	M	L	L
6.5	R	R	R	M	M	M	M	L	L	L
7.0	M	M	M	L	L	L	L	L	L	L
7.5	M	L	L	L	L	L	L	L	L	L
8.0	L	L	L	L	L	L	L	L	L	L
8.5	L	L	L	L	L	L	L	L	L	L
9.0	L	L	L	L	L	L	L	L	L	L
9.5	L	L	L	L	L	L	L	L	L	L
10.0	L	L	L	L	L	L	L	L	L	L
10.5	L	L	L	L	L	L	L	L	L	L
11.0	L	L	L	L	L	L	L	L	L	L

<sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. The 1996-97 optimal choice is indicated by grey-shaded cell (1996 values = 8.89 million mallards and 5.00 million ponds).

<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.

<sup>3</sup> Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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### 1998-99 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 1998-99 hunting season.

MALLARDS <sup>2</sup>	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5										
5.0										
5.5										
6.0										
6.5										
7.0										
7.5										
8.0										
8.5										
9.0										
9.5										
10.0										
10.5										
11.0										

<sup>1</sup> Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1998-99 optimal choice is indicated by large-framed cell (1998 values = 10.62 million mallards and 2.52 million ponds).

<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.

<sup>3</sup> Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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## 2005-2006 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2005 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	
6.75	R	R	R	R	R	R	M	M	M	L
7.00	R	R	R	R	R	M	M	L	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	M	M	M	L	L	L	L	L	L
7.75	M	M	M	L	L	L	L	L	L	L
8.00	M	M	L	L	L	L	L	L	L	L
8.25	L	L	L	L	L	L	L	L	L	L
>=8.5	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2005-2006 optimal choice is indicated by grey-shaded cell (2005 values = 7.54 million mallards and 3.92 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2006-2007 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2006 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	
6.75	R	R	R	R	R	R	R	R	M	M
7.00	R	R	R	R	R	M	M	M	M	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	R	M	M	M	L	L	L	L	L
7.75	R	R	M	M	M	L	L	L	L	L
8.00	R	R	M	M	M	L	L	L	L	L
8.25	R	R	M	M	M	L	L	L	L	L
>=8.5	R	R	M	M	M	L	L	L	L	L

- <sup>1</sup> Package choices: C = closed, R = restrictive, M = moderate, L = liberal. 2006-2007 optimal choice is indicated by grey-shaded cell (2006 values = 7.86 million mallards and 4.45 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2007-2008 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2007 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	
6.75	R	R	R	R	R	R	M	M	M	L
7.00	R	R	R	R	R	M	M	L	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	M	M	L	L	L	L	L	L	L
7.75	M	M	M	L	L	L	L	L	L	L
8.00	M	L	L	L	L	L	L	L	L	L
8.25	L	L	L	L	L	L	L	L	L	L
>=8.5	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2007-2008 optimal choice is indicated by grey-shaded cell (2007 values = 9.05 million mallards and 5.04 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2008-2009 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2008 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.50	R	R	R	R	R	R	R	R	R	R
5.75	R	R	R	R	R	R	R	R	R	M
6.00	R	R	R	R	R	R	R	M	M	L
6.25	R	R	R	R	R	M	M	M	M	L
6.50	R	R	R	M	M	M	L	L	L	L
6.75	R	M	M	L	L	L	L	L	L	L
7.00	M	M	M	L	L	L	L	L	L	L
>=7.25	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2008-2009 optimal choice is indicated by grey-shaded cell (2008 values = 7.87 million mallards and 3.05 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2009-2010 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2009 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.75	R	R	R	R	R	R	R	R	R	R
6.00	R	R	R	R	R	R	R	M	M	M
6.25	R	R	R	R	R	R	M	M	M	L
6.50	R	R	R	R	R	M	M	M	M	L
6.75	R	R	R	M	M	M	L	L	L	L
7.00	R	M	M	L	L	L	L	L	L	L
7.25	M	M	L	L	L	L	L	L	L	L
7.50	M	L	L	L	L	L	L	L	L	L
>=7.75	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2009-2010 optimal choice is indicated by grey-shaded cell (2009 values = 8.71 million mallards and 3.57 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2010-2011 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2010 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.75	R	R	R	R	R	R	R	R	R	R
6.00	R	R	R	R	R	R	R	R	M	M
6.25	R	R	R	R	R	R	R	M	M	M
6.50	R	R	R	R	R	M	M	M	M	L
6.75	R	R	R	R	M	M	L	L	L	L
7.00	R	M	M	L	L	L	L	L	L	L
7.25	M	M	L	L	L	L	L	L	L	L
7.50	L	L	L	L	L	L	L	L	L	L
>=7.75	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2010-2011 optimal choice is indicated by grey-shaded cell (2010 values = 8.60 million mallards and 3.73 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

## 2011-2012 AHM MATRIX

Optimal regulatory choices<sup>1</sup> for midcontinent mallards during the 2011 hunting season.

MALLARDS <sup>2</sup>	CANADIAN PONDS <sup>3</sup>									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.0	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	M	M	
6.50	R	R	R	R	R	M	M	M	M	L
6.75	R	R	R	R	M	M	L	L	L	L
7.00	R	R	M	M	L	L	L	L	L	L
7.25	R	M	M	L	L	L	L	L	L	L
7.50	M	M	L	L	L	L	L	L	L	L
7.75	M	L	L	L	L	L	L	L	L	L
>=8.0	L	L	L	L	L	L	L	L	L	L

- <sup>1</sup> Package choices: R = restrictive, M = moderate, L = liberal. 2011-2012 optimal choice is indicated by grey-shaded cell (2011 values = 9.46 million mallards and 4.89 million ponds).  
<sup>2</sup> Estimated number (millions) of midcontinent mallards during May surveys in WBPMS and MN, WI, and MI.  
<sup>3</sup> Estimated number (millions) of ponds in Prairie Canada during May surveys.

**CENTRAL FLYWAY  
COUNCIL**

**CENTRAL FLYWAY  
WATERFOWL TECHNICAL COMMITTEE**

**CENTRAL FLYWAY  
WEBLESS GAME BIRD TECHNICAL COMMITTEE**

**CENTRAL MANAGEMENT UNIT  
MOURNING DOVE TECHNICAL COMMITTEE**

**CENTRAL FLYWAY  
NONGAME TECHNICAL COMMITTEE**

**CENTRAL FLYWAY MEETING LOCATIONS**

**GAY SIMPSON & JOE GABIG AWARDS**

**CENTRAL FLYWAY CONSULTANTS**

**SERVICE REGULATIONS COMMITTEE**

**USFWS FLYWAY REPRESENTATIVES**

**USFWS REGIONAL MIGRATORY BIRD CHIEFS**

**CENTRAL FLYWAY COUNCIL  
1948-2012**

1948-2012

# CENTRAL FLYWAY WATERFOWL TECHNICAL COMMITTEE

## 1954-2012

CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	AB	NWT	SK
1954 J.R. Grieb	J. Coats	W.G. Freeman	H.W. Miller	H.C. Pickens	B. Fastingsbauer	R.D. Gray	E.H. Smith	J.R. Singleton	R. LaPatterson			
1955 J.R. Grieb	J. Coats	W.G. Freeman	H.W. Miller	H.C. Pickens	B. Fastingsbauer	M. Dodson	R. Murdy	J.R. Singleton	R.M. Ballou			
1956 J.R. Grieb	O. Gasswint	W.G. Freeman	H.W. Miller	L. Lee	C.H. Schroeder	M. Atkins	R. Murdy	J.R. Singleton	R.M. Ballou			
1957 J.R. Grieb	O. Gasswint	W.G. Freeman	H.W. Miller	L. Lee	C.H. Schroeder	J.F. Sykora	M.E. Anderson	J.R. Singleton	R.M. Ballou			
1958 J.R. Grieb	D.C. Coleman	W.G. Freeman	H.W. Miller	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	J.R. Singleton	G.F. Vrakestraw			
1959 J.R. Grieb	D.C. Coleman	W.G. Freeman	G. Schidman	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	J.R. Singleton	G.F. Vrakestraw			
1960 J.R. Grieb	D.C. Coleman	W.G. Freeman	D.W. Witt	G. Schidman	W.S. Huey	F.F. Copelin	M.E. Anderson	E.A. Walker	G.F. Vrakestraw			
1961 J.R. Grieb	D.C. Coleman	W.G. Freeman	D.W. Witt	G. Schidman	L. Gordon	F.F. Copelin	M.E. Anderson	A.J. Springs	G.F. Vrakestraw			
1962 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1963 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1964 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1965 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1966 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1967 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1968 J.R. Grieb	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1969 H.D. Funk	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1970 H.D. Funk	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1971 H.D. Funk	M.D. Schwilling	W.G. Freeman	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1972 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	G.W. Merrill	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1973 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1974 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1975 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1976 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1977 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1978 H.D. Funk	M.D. Schwilling	J. Egan	D.W. Witt	G. Schidman	J.L. Sands	F.O. Gilliam	R.D. Hart	R. Caldwell	R. Caldwell			
1979 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1980 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1981 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1982 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1983 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1984 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1985 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1986 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1987 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1988 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1989 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1990 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1991 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1992 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1993 H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1994 J.K. Ringelman	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1995 J.K. Ringelman	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1996 J.K. Ringelman	M.J. Kraft	T.C. Hinz	J. Hyland	J. Hyland	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Vrakestraw	D. Neave	D. Gray	
1997 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	T. Mitchusson	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
1998 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
1999 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2000 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2001 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2002 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2003 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2004 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2005 J. Gammonley	M.J. Kraft	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2006 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2007 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2008 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2009 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2010 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2011 J. Gammonley	F.M. McNew	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			
2012 J. Gammonley	T. Bidrowski	J. Hansen	P.J. Gabig	P.J. Gabig	B. Hale	S.G. Simpson	R.D. Witte	R. Brewster	D. Brewster			

K.L. Krause FILE: SWMBIO/CF\_PROJECTS/ADMIN/STRATEGIC/MEETINGS/XLS

**CENTRAL FLYWAY WEBLESS MIGRATORY GAME BIRD TECHNICAL COMMITTEE**  
**1966-2012**

CO	KS	MT	NE	ND	OK	SD	TX	WY	IA	MO	MN	MS	AB	NWT	SK
1966	M.D. Schwalling	D.W. Witt	G. Schudman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	A.J. Springs	G.F. Wakesraw	G. Klingian	E. Kopischke	K. Sadler	E. Kopischke			
1967	H.D. Funk	M.D. Schwalling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	G.F. Wakesraw	G.F. Wakesraw	R. Bishop	K. Sadler	E. Kopischke			
1968	H.D. Funk	M.D. Schwalling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	G.F. Wakesraw	G.F. Wakesraw	R. Bishop	K. Sadler	E. Kopischke			
1969	M.D. Schwalling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	T.L. Clark	G.F. Wakesraw	R. Bishop	K. Sadler	E. Kopischke			
1970	H.D. Funk	M.D. Schwalling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	T.L. Clark	G.F. Wakesraw	R. Bishop	K. Sadler	E. Kopischke		
1971	C.E. Braun	M.D. Schwalling	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	T.L. Clark	G.F. Wakesraw	R. Bishop	K. Sadler	E. Kopischke		
1972	C.E. Braun	M.D. Schwalling	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	K.E. Gamble	G.F. Wakesraw	A. Farms	K. Sadler	E. Kopischke		
1973	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	K.E. Gamble	G.F. Wakesraw	A. Farms	K. Sadler	E. Kopischke		
1974	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	T.L. Clark	G.F. Wakesraw	A. Farms	K. Sadler	E. Kopischke		
1975	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	C. Schwartz	K. Sadler	E. Kopischke		
1976	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	C. Schwartz	K. Sadler	R.L. Jessen		
1977	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	C. Schwartz	K. Sadler	R.L. Jessen		
1978	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	C. Schwartz	K. Sadler	R.L. Jessen		
1979	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	R. George	K. Sadler	R.L. Jessen		
1980	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakesraw	R. George	K. Sadler	R.L. Jessen		
1981	H.D. Funk	T.C. Hinck	T.C. Hinck	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1982	H.D. Funk	T.C. Hinck	T.C. Hinck	J.T. Sweet	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1983	H.D. Funk	G.J. Horak	T.C. Hinck	J.H. Hyland	G. Downer	M.A. Johnson	L. Due	T. Kuck	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1984	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Herring	M.A. Johnson	L. Due	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1985	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Herring	S.C. Kahn	M.E. O'Neilia	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1986	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Gonzales	S.C. Kahn	M.E. O'Neilia	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1987	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Ward	S.C. Kahn	M.E. O'Neilia	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1988	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Ward	S.C. Kahn	M.E. O'Neilia	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1989	H.D. Funk	G.J. Horak	T.C. Hinck	P.J. Gabig	J. Ward	S.C. Kahn	M.E. O'Neilia	S.G. Simpson	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1990	H.D. Funk	M.J. Kraft	T.C. Hinck	P.J. Gabig	J. Ward	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1991	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	J. Ward	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1992	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	B. Hale	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1993	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	B. Hale	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1994	J.K. Ringerman	H. Hands	J. Hansen	P.J. Gabig	B. Hale	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1995	J.K. Ringerman	H. Hands	J. Hansen	P.J. Gabig	B. Hale	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1996	J. Gammonley	H. Hands	J. Hansen	P.J. Gabig	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1997	J. Gammonley	H. Hands	J. Hansen	P.J. Gabig	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1998	J. Gammonley	H. Hands	J. Hansen	P.J. Gabig	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
1999	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2000	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2001	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2002	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2003	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2004	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2005	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2006	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2007	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2008	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2009	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2010	J. Gammonley	F.M. McNew	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2011	J. Gammonley	T. Bielowski	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	
2012	J. Gammonley	T. Bielowski	J. Hansen	S. Taylor	T. Mitchellson	S.C. Kahn	M.E. O'Neilia	S.J. Vaa	R. George	R. Sau	R. Sau	R. Sau	R. Sau	R. Sau	

The name and composition of the CDTUC was changed in 1989 to Central Flyway Webless Migratory Game Bird Technical Committee. Voting membership restricted to C States/Provinces.

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**CENTRAL MANAGEMENT UNIT MOURNING DOVE TECHNICAL COMMITTEE**  
**2000-2012**

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	IA	AR	MO	MN
2000	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	S. C. Kohn	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	J.H. Schulz	S. Maxon	
2001	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	S. C. Kohn	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	J.H. Schulz	S. Maxon	
2002	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	S. C. Kohn	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	J.H. Schulz	S. Maxon	
2003	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	S. C. Kohn	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	J.H. Schulz	S. Maxon	
2004	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	S. C. Kohn	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	A. James	J.H. Schulz	S. Maxon
2005	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	M.L. Szymanski	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	A. James	J.H. Schulz	W. Penning
2006	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchellsson	M.L. Szymanski	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	J.H. Schulz	W. Penning	
2007	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchellsson	M.L. Szymanski	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2008	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchellsson	M.L. Szymanski	M.E. O'Melia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2009	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchellsson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2010	J. Gammonley	F.M. McNew	J. Hansen	J. Lusk	T. Mitchellsson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2011	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	B. Hale	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2012	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	J. Sands	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	S. Cordts

K.L. Kuse FILE: SWMBMOUFC-DI PROJECTSADMINISTRATIVE/HISTORICMEMBERS.XLS

**CENTRAL FLYWAY NONGAME BIRD TECHNICAL COMMITTEE**  
**2006-2012**

	<b>CO</b>	<b>KS</b>	<b>MT</b>	<b>NE</b>	<b>NM</b>	<b>ND</b>	<b>OK</b>	<b>SD</b>	<b>TX</b>	<b>WY</b>	<b>FWS</b>
2006	D. Klute	H. Hands	A. Begley	J. Jorgensen	S. Williams	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona	S. Jones
2007	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona	S. Jones
2008	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona	S. Jones
2009	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	-	E. Dowd Stukel	C. Shackelford	A. Orabona	S. Jones
2010	D. Klute	F.M. McNew	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	S. Jones
2011	D. Klute	T. Bidrowski	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	S. Jones
2012	D. Klute	T. Bidrowski	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	S. Jones

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## Central Flyway Meeting Locations

YEAR	Technical Comm. Working Meeting	Council Spring Meeting	Technical Comm. Spring Meeting	Council and Technical Summer Meeting
1975		Pittsburg, PA	Denver, CO	Oklahoma City, OK
1976		Washington, D.C.	Denver, CO	Sheridan, WY
1977		Atlanta, GA	Denver, CO	Calgary , Alberta
1978		Phoenix, AZ	Kearney, NE	North Platte, NE
1979		Toronto, Canada		Albuquerque, NM
1980		Miami Beach, FL	Port Authur, TX	McCallen, TX
1981			Billings, MT	Billings, MT
1982		Portland, OR	Ft. Collins, CO	Colorado Springs, CO
1983		Kansas City, MO	Ft. Collins, CO	Rapid City, SD
1984	1st meeting	Boston, MA	Wichita, KS	Wichita, KS
1985		Washington, D.C.	Bismarck, ND	Bismarck, ND
1986		Reno, NV	Oklahoma City, OK	Tulsa, OK
1987		Quebec City, Canada	Cheyenne, WY	Cheyenne, WY
1988		Louisville, KY	Port Authur, TX	Calgary , Alberta
1989		Washington, D.C.	Kearney, NE	North Platte, NE
1990		Denver, CO	Albuquerque, NM	Angel Fire, NM
1991	McCallen, TX	Edmonton, Alberta	Lubbock, TX	Corpus Christi, TX
1992		Charlotte, NC	Kearney, NE	Yellowknife, NWT
1993	Billings, MT	Washington, D.C.	Great Falls, MT	Great Falls, MT
1994		Anchorage, AK	Alamosa, CO	Crested Butte, CO
1995	Albuquerque, NM	Minneapolis, MN	Pierre, SD	Custer State Park, SD
1996		Tulsa, OK	Great Bend, KS	Kansas City, MO
1997		Washington, D.C.	Kearney, NE	Cypress Hills, SASK
1998		Orlando, FL	Harlingen, TX	Bismarck, ND
1999		San Francisco, CA	Lawton, OK	Bartlesville, OK
2000		Rosemount, IL	Cody, WY	Memphis, TN
2001		Washington, D.C.	Lethbridge, Alberta	Edmonton, Alberta
2002	Wichita, KS	Dallas, TX	Lincoln, NE	Omaha, NE
2003	Socorro, NM	Winston-Salem, NC	Albuquerque, NM	Santa Fe, NM
2004	Amarillo, TX	Spokane, WA	Corpus Christie, TX	Austin, TX
2005	Amarillo, TX	Arlington, VA	Billings, MT	Helena, MT
2006	Socorro, NM	Columbus, OH	Ft. Collins, CO	Estes Park, CO
2007	Socorro, NM	Portland, OR	Brookings, SD	Spearfish, SD
2008	Socorro, NM	Phoenix, AZ	Great Bend, KS	Kansas City, KS
2009	Socorro, NM	Arlington, VA	Corpus Christie, TX	Bismarck, ND
2010	Socorro, NM	Milwaukee, WI	Tulsa, OK	Norman, OK
2011	Socorro, NM	Kansas City, MO	Laramie, WY	Cody, WY
2012	Amarillo, TX	Atlanta, GA	Grand Island, NE	Canmore, Alberta

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## **Gay Simpson Award**

This award is offered by the Central Flyway Council in memory of Gay Simpson whose abbreviated life was highlighted by perceptive and aggressive waterfowl research and management. It is presented to South Dakota State University students who have demonstrated outstanding research in the ecology or management of Central Flyway waterfowl or their habitats.

## **P. Joseph Gabig Award**

This award is offered by the Central Flyway Council in memory of Joe Gabig who was tireless in his pursuit of scientifically-based research and management of our nation's migratory game bird resources and their habitats and in his support of sound hunting programs. It is presented to college and university students in Nebraska who have demonstrated exceptional leadership in the science of migratory game bird conservation and management.

### **Recipient**

1990	Kent Luttschwager
1991	Cathy Henry
1992	Dr. Charles Dieter
1993	Lisa Peskin Sausville
1994	Mark Humpert
1995	Dr. Rex Johnson
1996	Dr. Jeff Gleason
1997	Dr. Dave Naugle
1998	Dr. Diane Granfors
1999	Tate Fischer
2000	Dr. Joshua Stafford
2001	Shawn May
2002	Kent Werlin
2003	Bryan Rieger
2004	Rachel Mockler
2005	Kimberly Strand
2006	Sharon N. Kahara
2007	Jennifer L. Gutscher
2008	Tandi L. Perkins
2009	Nick Docken
2010	Heather N. McWilliams
2011	-----

### **Recipient**

1990	Zach Cunningham, University of Nebraska-Lincoln
1991	Ingrid Barcelo, University of Nebraska-Lincoln
1992	-----
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2010	Scott Groeppe, University of Nebraska-Lincoln
2011	Todd Buckley, University of Nebraska-Lincoln

**CENTRAL FLYWAY COUNCIL CONSULTANTS TO THE  
U.S. FISH AND WILDLIFE SERVICE REGULATIONS COMMITTEE**

YEAR	CONSULTANT	
1975	Jack R. Grieb (CO)	
1976 <sup>1</sup>	Dick Wettersten (KS)	Jack R. Grieb (CO)
1977	William J. Bailey (NE)	Wynn Freeman (MT)
1978	William J. Bailey (NE)	Wynn Freeman (MT)
1979	Ted L. Clark (TX)	Harold Olson (NM)
1980	K.L. Kool (SD)	Jack R. Grieb (CO)
1981	K.L. Kool (SD)	Jack R. Grieb (CO)
1982	K.L. Kool (SD)	Jack R. Grieb (CO)
1983	Charles Schroeder (ND)	Jack R. Grieb (CO)
1984	Charles Schroeder (ND)	Dale Witt (MT)
1985	Steve Lewis (OK)	Dale Witt (MT)
1986	Steve Lewis (OK)	Dale Strickland (WY)
1987	Dale Witt (TX)	Dale Strickland (WY)
1988	Dale Witt (TX)	Dale Strickland (WY)
1989	K.L. Kool (SD)	Arnie Olson (MT)
1990	William J. Bailey (NE)	Bill Montoya (NM)
1991	Robert Jessen (TX)	Bill Montoya (NM)
1992	Robert Jessen (TX)	Ronnie George (TX)
1993	Lloyd Jones (ND)	Tom Hinz (MT)
1994	Vernon Bevill (TX)	Tom Hinz (MT)
1995	Vernon Bevill (TX)	Tom Hinz (MT)
1996	Vernon Bevill (TX)	Tom Hinz (MT)
1997	Vernon Bevill (TX)	Tom Hinz (MT)
1998	Vernon Bevill (TX)	Tom Hinz (MT)
1999	Vernon Bevill (TX)	George Vandel (SD)
2000	Randy Kreil (ND)	George Vandel (SD)
2001	Randy Kreil (ND)	George Vandel (SD)
2002	Randy Kreil (ND)	George Vandel (SD)
2003	Randy Kreil (ND)	George Vandel (SD)
2004	Randy Kreil (ND)	George Vandel (SD)
2005	Randy Kreil (ND)	George Vandel (SD)
2006	Vernon Bevill (TX)	George Vandel (SD)
2007	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2008	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2009	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2010	Jeffrey Herbert (MT)	Michael O'Melia (OK)
2011	Jeffrey Herbert (MT)	Michael O'Melia (OK)
2012	Dave Morrison (TX)	John Emmerich (WY)

<sup>1</sup> Chairman Wrakestraw also attended meeting

**SERVICE REGULATIONS COMMITTEE**  
U.S. Fish & Wildlife Service  
1975-2012

Partial Year

1987-present - Chief, Office of Migratory Bird Management serves as non-voting Executive Secretary

הנִזְקָנָה בְּבֵית־יְהוָה וְבַת־יְהוָה בְּבֵית־יְהוָה

# USFWS FLYWAY REPRESENTATIVES

## 1952-2012

ATLANTIC FLYWAY	MISSISSIPPI FLYWAY	CENTRAL FLYWAY	PACIFIC FLYWAY
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1949			Leo K. Couch
1950			Leo K. Couch
1951			Leo K. Couch
1952	C. Edward Addy	<i>vacant</i>	<i>vacant</i>
1953	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams
1954	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams
1955	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams
1956	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams
1957	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams
1958	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1959	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1960	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1961	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1962	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1963	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1964	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1965	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1966	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1967	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1968	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1969	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1970	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1971	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller
1972	C. Edward Addy	<i>vacant</i>	Raymond J. Buller
1973	<i>vacant</i>	Kenneth E. Gamble	Raymond J. Buller
1974	Warren W. Blandin	Kenneth E. Gamble	Raymond J. Buller
1975	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1976	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1977	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1978	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1979	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1980	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1981	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1982	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller
1983	<i>vacant</i>	Kenneth E. Gamble	Harvey W. Miller
1984	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller
1985	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller
1986	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller
1987	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller
1988	Jerome R. Serie	Kenneth E. Gamble	Wilbur N. Ladd
1989	Jerome R. Serie	Kenneth E. Gamble	Wilbur N. Ladd
1990	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1991	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1992	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1993	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1994	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1995	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1996	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1997	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1998	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
1999	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2000	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2001	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2002	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2003	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2004	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2005	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2006	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp
2007	Paul I. Padding	James R. Kelley	David E. Sharp
2008	Paul I. Padding	James R. Kelley	David E. Sharp
2009	Paul I. Padding	James R. Kelley	David E. Sharp
2010	Paul I. Padding	James R. Kelley	David E. Sharp
2011	Paul I. Padding	James R. Kelley	James A. Dubovsky
2012	Paul I. Padding	James R. Kelley	James A. Dubovsky

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# FWS REGIONAL MIGRATORY BIRD COORDINATORS

YEAR	REGION 1 *	REGION 2 *	REGION 3 *	REGION 4 *	REGION 5 *	REGION 6 *	REGION 7 *	REGION 8 *
1973	John W. Ellis				William French			
1974	John W. Ellis				William French			
1975	John W. Ellis				William French			
1976	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	James C. Bartonek		
1977	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	James C. Bartonek		
1978	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	Wilbur N. Ladd		
1979	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	Wilbur N. Ladd		
1980	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	<i>vacant</i>		
1981	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	E. Frank Bowers		
1982	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	Dirk V. Derksen		
1983	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	Robert L. Croft	Dirk V. Derksen		
1984	Richard Bauer	Larry Smith	John W. Ellis	E. Frank Bowers	Robert L. Croft	Dirk V. Derksen		
1985	Richard Bauer	Jeffrey Haskins	John W. Ellis	E. Frank Bowers	Robert L. Croft	Richard S. Posphahia		
1986	Richard Bauer	Jeffrey Haskins	Robert O. Oetting	E. Frank Bowers	Robert L. Croft	Richard S. Posphahia		
1987	Richard Bauer	Jeffrey Haskins	Robert O. Oetting	E. Frank Bowers	Wilbur N. Ladd	<i>vacant</i>		
1988	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	John E. Corney	<i>vacant</i>		
1989	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	<i>vacant</i>		
1990	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robin L. West		
1991	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robin L. West		
1992	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robin L. West		
1993	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robin L. West		
1994	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robin L. West		
1995	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
1996	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
1997	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
1998	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
1999	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
2000	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
2001	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
2002	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
2003	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	Robert R. Leedy		
2004	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Robert R. Leedy		
2005	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Robert R. Leedy		
2006	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2007	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2008	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2009	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2010	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2011	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	David Viker	Russ Oates		
2012	Nanette Seto	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	Sherry Morgan	Russ Oates		
		<i>vacant</i>			Emily Jo Williams	Sherry Morgan		

\* FWS REGIONS: Portland (1), Albuquerque (2), Minneapolis (3), Atlanta (4), Hadley (5), Denver (6), Anchorage (7), Sacramento (8)

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